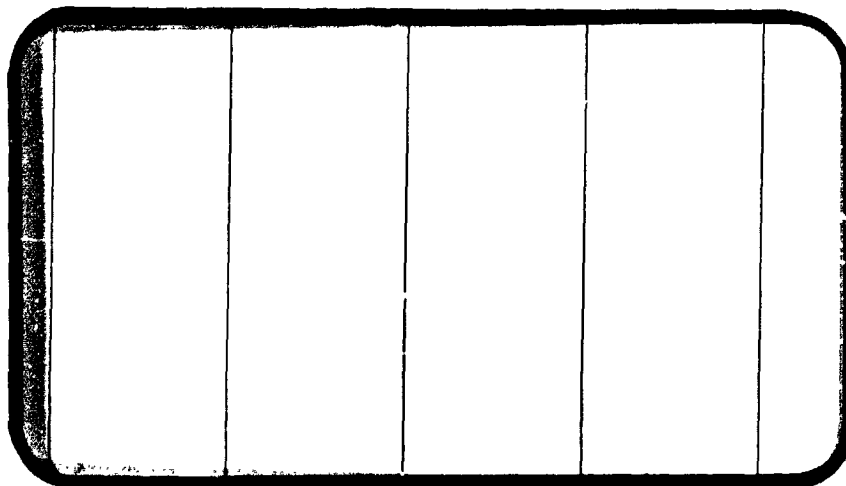




NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA CR

134412



(NASA-CR-134412) AERODYNAMIC RESULTS OF
SUPPORT SYSTEM INTERFERENCE EFFECTS TESTS
CONDUCTED IN NASA/ARC 6 BY 6-FOOT
SUPERSONIC WIND TUNNEL USING A (Chrysler
Corp.) 553 p HC \$13.00

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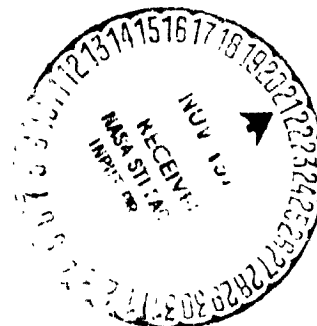
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER
CORPORATION

September, 1974

DMS-DR-2159
NASA CR-134,412

AERODYNAMIC RESULTS OF SUPPORT SYSTEM
INTERFERENCE EFFECTS TESTS CONDUCTED IN NASA/ARC 6-
BY 6-FOOT SUPERSONIC WIND TUNNEL USING AN 0.015-SCALE
MODEL OF THE CONFIGURATION 140A/B SSV ORBITER (OA59)

VOLUME II

By

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Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

By

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Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: ARC 66-709
NASA Series Number: OA59
Model Number: 49-0 Mod.
Test Dates: March 13 through March 22, 1974
Occupancy Hours: 141

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AERODYNAMIC RESULTS OF SUPPORT SYSTEM
INTERFERENCE EFFECTS TESTS CONDUCTED IN NASA/ARC
6- BY 6-FOOT SUPERSONIC WIND TUNNEL USING AN 0.015-SCALE
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By John H. Campbell II and Willard R. Embury
Rockwell International Space Division

ABSTRACT

An experimental aerodynamic investigation (OA59) was conducted in the NASA/ARC 6- by 6-Foot Supersonic Wind Tunnel from 13 through 22 March 1974. The test article was an 0.015-scale Configuration 140A/B SSV Orbiter model (49-0). The primary objective of this investigation was to determine the extent aerodynamic simulation is compromised by sting base mounting with MPS nozzles removed.

Both a conventional sting (through the base) and an alternate model mounting system were utilized. The alternate mounting system consisted of a non-metric blade strut which approximated the vertical tail and entered the model through the upper aft section of its fuselage. The model was tested both in and out of the presence of a dummy sting with and without MPS nozzles when on the alternate mounting system. Data were obtained at Mach numbers from 0.6 through 2.0, a Reynolds number of 2.5 million per foot, angles of attack from -4 through 14 degrees, angles of sideslip from -15 through 15 degrees, elevon deflections of 0 and 15 degrees, and bodyflap deflections of -11.7, 0, and 16.3 degrees.

This report is published in two volumes. Volume I contains Data Figures 4 through 9. Volume II contains Data Figures 10 through 15 and the Tabulated Source Data.

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PLOT SCHEDULES

- A) CL, CD, CA, CLMFWD, CLMFT vs ALPHA, CN CL vs CLMFWD, CL vs CD
- B) CNT, CMTFWD, CMTAFT vs ALPHA, CNT, CLT vs CMTFWD, CLT vs CDT, CDF, CAF, CAB vs ALPHA
- C) CAV, CNV, CMVFW, CMVFT vs ALPHA
- D) CLT, CLV, CL, CDB, CD, CDF, CDT vs MACH
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- L) CBL, CYN, CY vs BETA
- M) DCBL, DCYN, DCY vs BETA

NOMENCLATURE
General

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C _p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m ² , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³

Reference & C.G. Definitions

A _b		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
l_{REF}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{Af}	CAF	forebody axial force coefficient, $C_A - C_{Ab}$
C_m	CIM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CIM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CTL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio; C_L/C_{Df}

NOMENCLATURE (Continued)
(Additions to Standard List)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
BOR		body of revolution
CD_V	CDV	vertical tail base drag coefficient
CL_V	CLV	vertical tail base lift coefficient
Cm_V	CMVFW	forward vertical tail base pitching-moment coefficient
CN_V	CHV	vertical tail base normal-force coefficient
CA_V	CAV	vertical tail base axial-force coefficient
ΔCD	DCD	balance incremental tare drag coefficient
ΔCL	DCL	balance incremental tare lift coefficient
ΔC_{mf}	DCMFW	balance forward incremental tare pitching-moment coefficient
ΔC_N	DCN	balance incremental tare normal-force coefficient
ΔC_A	DCA	balance incremental tare axial-force coefficient
ΔC_Y	DCY	balance incremental tare side-force coefficient
ΔC_L	DCBL	balance incremental tare rolling-moment coefficient
ΔC_n	DCYN	balance incremental tare yawing-moment coefficient
C_{pV1}	CPV1	base pressure coefficient on upper speed brake portion
C_{pV2}	CPV2	base pressure coefficient on lower speed brake portion
C_{pV3}	CPV3	base pressure coefficient on lower vertical tail portion
XV1		longitudinal distance from $0.65 l_B$ to centroid of area containing C_{pV1}

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
XV2		longitudinal distance from 0.65 $\frac{1}{2}$ B to centroid of area containing C_{PV2}
XV3		longitudinal distance from 0.65 $\frac{1}{2}$ B to centroid of area containing C_{PV3}
ZV1		vertical distance from 375" W.L. to centroid of area containing C_{PV1}
ZV2		vertical distance from 375" W.L. to centroid of area containing C_{PV2}
ZV3		vertical distance from 375" W.L. to centroid of area containing C_{PV3}
A _{V1}		area associated with pressure coefficient C_{PV1}
A _{V2}		area associated with pressure coefficient C_{PV2}
A _{V3}		area associated with pressure coefficient C_{PV3}
C _{PB(i)}		body base-pressure coefficient from body base orifice $P_{B1,2,\dots}$
C _{PC1}		strut cavity-pressure coefficient from strut cavity orifice P_{C1}
C _{PC2}		sting cavity-pressure coefficient from sting cavity orifice P_{C2}
C _{PAi}		fuselage afterbody pressure coefficient
X ₀		Orbiter fuselage station, inches
Y ₀		Orbiter butt plane, inches
A _{Bi}		base area assigned to i^{th} pressure, in ²

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
C_{A_b}	CAB	model-body base axial-force coefficient
C_{D_f}	CDF	total forebody drag force coefficient
C_{D_b}	CDB	model body base drag-force coefficient
C_{m_f}	CLMFWD	balance forward pitching-moment coefficient at 0.65 l_B
C_{m_a}	CLMAFT	balance aft pitching-moment coefficient at 0.675 l_B
$C_{m_{t_f}}$	CMTFWD	forward total pitching moment coefficient
$C_{m_{t_a}}$	CMTAFT	aft total pitching moment coefficient
$C_{m_{V_f}}$	CMVAFT	aft vertical tail base pitching moment coefficient
C_{L_t}	CLT	total lift-force coefficient
C_{D_t}	CDT	total drag-force coefficient
C_{N_t}	CNT	total normal-force coefficient
C_{A_f}	CAF	total forebody axial-force coefficient
C_{A_t}	CAT	total axial-force coefficient
ΔC_{L_t}	DCLT	incremental total lift-force coefficient
ΔC_{L_V}	DCLV	incremental vertical tail base lift force coefficient
ΔC_{D_b}	DCDB	incremental model body base drag force coefficient

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
ΔC_{D_v}	DCDV	incremental vertical tail base drag force coefficient
ΔC_{D_f}	DCDF	incremental total forebody drag force coefficient
ΔC_{D_t}	DCDT	incremental total drag force coefficient
$\Delta C_{m_{t_f}}$	DCMTFW	incremental total forward pitching moment coefficient
$\Delta C_{m_{v_f}}$	DCMVFW	incremental forward vertical tail pitching moment coefficient
$\Delta C_{m_{t_a}}$	DCMTAF	incremental total aft pitching moment coefficient
$\Delta C_{m_{v_f}}$	DCMVAF	incremental aft vertical tail base pitching moment coefficient
ΔC_{m_a}	DCMAFT	incremental balance aft pitching moment coefficient
ΔC_{N_t}	DCNT	incremental total normal force coefficient
ΔC_{N_v}	DCNV	incremental vertical tail base normal-force coefficient
ΔC_{A_t}	DCAT	incremental total axial force coefficient
ΔC_{A_v}	DCAV	incremental vertical tail base axial-force coefficient
ΔC_{A_b}	DCAB	incremental model-body base axial-force coefficient
ΔC_{A_f}	DCAF	incremental total forebody axial-force coefficient
δ_{bf}	BDFLAP	bodyflap deflection angle, positive trailing edge down, degrees

NOMENCLATURE (Concluded)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
δ_e	ELEVON	elevon surface deflection angle, positive trailing edge down, degrees
Λ_u		sweepback angle of the speedbrake trailing edge, degrees
Λ_L		sweepback angle of lower part of the vertical tail, degrees
δ_{sb}	SPDBRK	speedbrake deflection angle, degrees

CONFIGURATIONS INVESTIGATED

Two support systems were tested. One was a Rockwell supplied blade-strut support which enters through the top of the model near the base, replacing the vertical tail as shown in figure 2b. The strut simulated the vertical tail (with a 24.92 degree speedbrake flare) to the extent that its span and profile closely matched. Because of stress considerations cross sections at various spanwise stations could not be matched. See figures 2d and 2e for comparisons. A (non-metric) dummy sting was located (via a stringer from the Ames sting which supports the blade-strut) in close proximity to the base. It simulated the first 20 inches of exposed sting downstream of the model base which exists for the case where the model is base mounted. Refer to figure 2a.

Control surface deflections tested were:

elevon: 0°, 15°

bodyflap: -11.7°, 0°, 16.3°

speedbrake: 24.92°

rudder: 0°

The basic Orbiter configurations are as follows:

$$O_{11A} = B_{26} C_9 E_{37} F_7 M_7 N_{24} N_{28} R_5 V_8 W_{116}, \text{ where}$$

<u>Component</u>	<u>Definition</u>
B ₂₆	Fuselage: forebody per Rockwell lines VL70-000143B; mid-body per lines -000200, -000205 and -006089; aft body per lines -000145, (Model drawing SS-A00147, Release 12)
C ₉	Canopy per Rockwell lines VL70-000143B (Model drawing SS-A00147, Release 12)

CONFIGURATIONS INVESTIGATED (Concluded)

E₃₇ Alternate slotted elevons per Rockwell lines VL70-000200, -006089, -006092 and figure 4A of SAS/AERO/76-643, dated October 31, 1973 (Model drawing SS-A00147, Release 6).

F₇ Body flap per Rockwell lines VL70-000145 (Model drawing SS-A00147, Release 12)

M₇ OMS/RCS pods per Rockwell lines VL70-000145 (Model drawing SS-A00147, Release 12)

N₂₄ MPS nozzles; contour per measurements made on Rockwell configuration control drawing VL70-0050030A; location per configuration control drawing VL70-000140A (Model drawing SS-A00147, Release 12)

N₂₈ OMS nozzles: contour per model drawing SS-A00106, release 5; location per Rockwell configuration control drawing VL70-000140A (Model drawing SS-A00147, Release 12)

R₅ Rudder per Rockwell lines VL70-000146A (Model drawing SS-A00148, Release 6)

V₈ Vertical tail per Rockwell lines VL70-000146A (Model drawing SS-A00148, Release 6)

W₁₁₆ Wing per Rockwell lines VL70-000200, -006089, and -006092 (Model drawing SS-A00148, Release 6)

INSTRUMENTATION

The Orbiter was mounted on the NASA/ARC 1.5-inch diameter Task MKIIE internal strain gage balance. The balance center was located at model station $X_0 = 15.989$, $Y_0 = 0.0$, and $Z_0 = 5.85$ inches.

A NASA/ARC dangleometer recorded BOR pitch angle. Predetermined sting deflection rates (due to load) were added to these to determine model α and β .

When the model was base mounted on the straight sting, there were five (5) base, two (2) cavity, two (2) top surface, and three (3) vertical tail trailing edge pressure orifices. All taps, except the cavity pressure, were built into the model skin with 0.043-inch O.D. stubs at the model base. The same number of pressure taps were used for both base mounted and blade strut model installations.

TEST FACILITY DESCRIPTION

The 6- by 6-Foot Wind Tunnel of the NASA Ames Research Center is a closed-circuit, variable pressure facility. The test section has a slotted floor and ceiling, allowing for continuous operation from Mach number 0.25 to 2.20 at stagnation pressures from 0.3 to 1.0 atmosphere for a stagnation temperature of 560°R. These conditions allow Reynolds number variation from 1 to 5 million per foot and a dynamic pressure range from 200 to 1000 pounds per square foot.

DATA REDUCTION

Standard NASA/ARC data reduction techniques were used with the following reference dimensions:

A_C	sting cavity area	0.0341 ft ²
b	reference wing span	1.171 ft
\bar{c}	reference M.A.C.	0.5935 ft
L_B	reference body length	1.613 ft
S	reference wing area	0.6053 ft ²
XMRP	longitudinal distance, model nose OML to moment reference center	12.6255 in
YMRP	lateral distance, plane of symmetry to moment reference center	0.0 in
ZMRP	vertical distance, FRP to moment reference center	-0.375 in

Fuselage and vertical tail base force coefficients were computed as follows:

$$C_{A_B} = - \sum_{i=1}^5 \frac{A_{Bi} C_{P_{Bi}}}{S} - \frac{A_C C_{P_C}}{S}$$

C_{A_B} = base axial-force coefficient

$$C_{A_V} = - \frac{\cos \Lambda_U}{S} (A_{V1} C_{P_{V1}} + A_{V2} C_{P_{V2}}) - \frac{\cos \Lambda_L A_{V3} C_{P_{V3}}}{S}$$

C_{A_V} = vertical tail base axial-force coefficient

$$C_{N_V} = \frac{\sin \Lambda_U}{S} (A_{V1} C_{P_{V1}} + A_{V2} C_{P_{V2}}) + \frac{\sin \Lambda_L}{S} (A_{V3} C_{P_{V3}})$$

DATA REDUCTION (Continued)

C_{N_V} = vertical tail base normal-force coefficient

$$C_{m_{V0.65}} l_B = - [A_{V1} C_{p_{V1}} (Z_{V1} \cos \Lambda_U + X_{V1} \sin \Lambda_U) + A_{V2} C_{p_{V2}} (Z_{V2} \cos \Lambda_U + X_{V2} \sin \Lambda_U) + A_{V3} C_{p_{V3}} (Z_{V3} \cos \Lambda_L + X_{V3} \sin \Lambda_L)] / \bar{c} S$$

where:

full - scale values

Symbol	Dimensions	All δ_{SB}	$\delta_{SB} = 25^\circ$	$\delta_{SB} = 55^\circ$	$\delta_{SB} = 85^\circ$
A_{V1}	ft ²		24.2	50.4	82.3
A_{V2}	ft ²		32.3	67.4	109.9
A_{V3}	ft ²		19.77	19.77	19.77
A_{B1}	ft	48.0			
A_{B2}	ft	89.3			
A_{B3}	ft	45.9			
A_{B4}	ft	78.2			
A_{B5}	ft	12.4			
A_{C2}	in ²	151.56			
X_{V1}	in	581.1			
X_{V2}	in	531.9			
X_{V3}	in	432.2			
Z_{V1}	in	351.0			
Z_{V2}	in	251.1			
Z_{V3}	in	165.7			
Λ_U	deg.	26° 15'			
Λ_L	deg.	63° 51'			

DATA REDUCTION (Concluded)

$$CD_v = CAV \cos \alpha + CNV \sin \alpha$$

$$CLV = CNV \cos \alpha - CAV \sin \alpha$$

$$CMVAFT = CMVFWD + (0.675 - 0.65) (l_B) CNV/\bar{c}$$

$$CLMAFT = CLMFWD + (0.675 - 0.65) (l_B) CN/\bar{c}$$

$$CDT = CD + CDV$$

$$CLT = CL + CLV$$

$$CAT = CA + CAV$$

$$CNT = CN + CNV$$

$$CMTFWD = CLMFWD + CMVFWD$$

$$CMTAFT = CLMAFT + CMVAFT$$

$$CAF = CAT - CAB$$

$$CDF = CAF \cos \alpha + CNT \sin \alpha$$

$$CDB = CDT - CDF$$

19

TABLE II.

TABLE III.

TEST : OA59										DATE : POST TEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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DATA SET IDENTIFIER	CONFIGURATION	SCMD.		CONTROL DEFLECTION			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										TEST RUN NUMBERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

TABLE II. (Concluded)

TEST: 0A59										DATE: 7057 TEST																		
DATA SET/RUN NUMBER COLLATION SUMMARY																												
DATA SET IDENTIFIER	CONFIGURATION	SCHE.		CONTROL DEFLECTION			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)							TEST RUN NUMBERS													
		A	B	C	D	E		F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
020	020 - N24	A	C	C	-11.7	25		123			122	121	120	119	118	117	116											
021								144			143		142		141	140	139											
022																	138											
023								130	129		128		127		126	125	124											
024								137	136		135		134		133	132	131											
								150			149		148		147	146	145											

TABLE III. - MODEL DIMENSIONAL DATA

*REVISED 4/24/74

MODEL COMPONENT: Body (B₂₆)GENERAL DESCRIPTION: Configuration J40 A/B Orbiter FuselageNOTE: B₂₆ identical to B₂₄ except underside of fuselage refaired to
accept W₁₁₆.

Model Scale = 0.015

Model Drawing No. SS-A00147

DRAWING NUMBER:

VL70-000193

VL70-000140A ; VL70-000140B

DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length (Body Fwd Sta $X_0 = 235$) - in.	<u>1293.3</u>	<u>19.400</u>
*Max. Width (at $X_0 = 1528.3$) - in.	<u>264.0</u>	<u>3.960</u>
Max. Depth (at $X_0 = 1464$) - in.	<u>250.0</u>	<u>3.75</u>
Fineness Ratio	<u>0.26357</u>	<u>0.26357</u>
Area - ft ²		
Max. Cross-Sectional	<u>340.83462</u>	<u>.07670</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - Continued.

*REVISED 4/24/74

MODEL COMPONENT: Canopy (C₉)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Fuselage

Model Drawing No. SS-A00147

Model Scale = 0.015

DRAWING NUMBER

VL70-000140A
VL70-000143ADIMENSION:FULL SCALEMODEL SCALE* Length ($X_0=434.643$ to 578)

143.357

2.150

Max Width (@ $X_0=513.127$)

152.412

2.286

Max Depth (@ $X_0=485.0$)

25.000

0.375

Fineness Ratio

Area

Max Cross-Sectional

Planform

Wetted

Base

TABLE III. - Continued.

*REVISED 4/24/74

MODEL COMPONENT: ALTERNATE SLOTTED ELEVON - E27

GENERAL DESCRIPTION: Configuration 140A/B Orbiter Elevon.

E₂₇ is a slotted version of E₂₆. Data is for one side.

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER: VL70-000200, -006089, -006092 and
Fig. 4A of SAS/AERO/76-643

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>210.0</u>	<u>0.0473</u>
Span (equivalent) - In.	<u>349.2</u>	<u>5.238</u>
Inb'd equivalent chord In.	<u>118.004</u>	<u>1.770</u>
Outb'd equivalent chord	<u>55.192</u>	<u>0.828</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>10.056</u>	<u>10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
* Area Moment (Product of Area & c) F. ³	<u>1587.25</u>	<u>0.00536</u>
* Mean Aerodynamic Chord In.	<u>90.7</u>	<u>1.361</u>

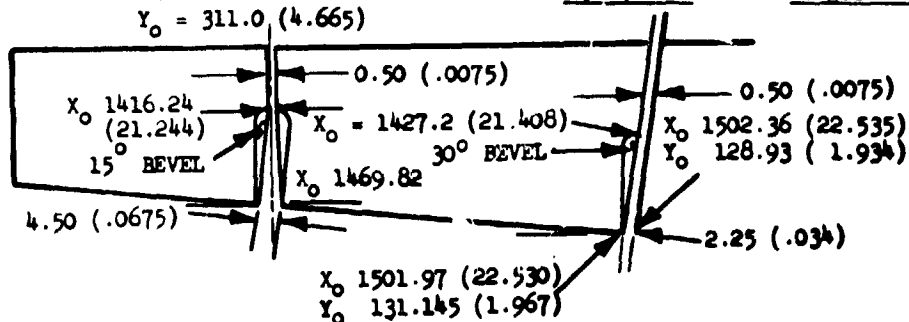


TABLE III. - Continued.

MODEL COMPONENT: Body Flap (F7)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Body FlapNOTE: Body flap has variable centerline deflection of $+13.75^\circ$ and -14.25° from null position. Hinge line located at $X_0 = 1528.3$, $Z_0 = 284.3$

Model Drawing No. SS-A00147

Model Scale = 0.015

DRAWING NUMBER

VL70-000140A, VL70-000145DIMENSION:FULL SCALEMODEL SCALELength ($X_0=1520$ to $X_0=1613$) - IN.93.0001.395

Max Width - IN.

262.0003.930Max Depth ($X_0 = 1520$) - IN.23.0000.345

Fineness Ratio

Area - Ft^2

Max Cross-Sectional

Planform

150.5250.0339

Wetted

Base

41.84722.00941

TABLE III. - Continued.

MODEL COMPONENT: OMS Pod (M₇)

GENERAL DESCRIPTION: Configuration 140 A/B Orbiter OMS-Pod

Model Scale = 0.015

Model Drawing No. SS-A00147

DRAWING NUMBER

VL70-000140A

VL70-000145

DIMENSION:

FULL SCALE

MODEL SCALE

Length (OMS Fwd Sta $X_0=1233.0$) - IN.

327.000

4.905

Max Width (@ $X_0=1450.0$) - IN.

94.5

1.418

Max Depth (@ $X_0=1493.0$) - IN.

109.000

1.635

Fineness Ratio

Area

Max Cross-Sectional

Planform

Wetted

Base

TABLE III. - Continued.

MODEL DIMENSIONAL DATA

MODEL COMPONENT: MPG NOZZLES - N₂₄GENERAL DESCRIPTION: Configuration 140A/R Orbiter MPS NozzlesMODEL SCALE: 0.015MODEL DRAWING: SS-A00147, RELEASE 12DRAWING NUMBER: VL70-005030A, VL70-000140A

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	<u>157.0</u>	<u>2.355</u>
Throat to Exit Plane	<u>99.2</u>	<u>1.488</u>
Diameter - In.		
Exit	<u>91.000</u>	<u>1.410</u>
Throat	<u> </u>	<u> </u>
Inlet	<u> </u>	<u> </u>
Area - ft ²		
Exit	<u>45.16585</u>	<u>0.0102</u>
Throat	<u> </u>	<u> </u>
Gimbal Point (Station) - In.		
Upper Nozzle		
X	<u>1445.0</u>	<u>21.675</u>
Y	<u>0.0</u>	<u>0.0</u>
Z	<u>443.0</u>	<u>6.645</u>
Lower Nozzles		
X	<u>1468.16996</u>	<u>22.023</u>
Y	<u>53.0000</u>	<u>0.795</u>
Z	<u>342.63988</u>	<u>5.140</u>
Null Position - Deg.		
Upper Nozzle		
Pitch	<u>16°</u>	<u>16°</u>
Yaw	<u>0°</u>	<u>0°</u>
Lower Nozzle		
Pitch	<u>10°</u>	<u>10°</u>
Yaw	<u>3.5°</u>	<u>3.5°</u>

TABLE III. - Continued.

MODEL COMPONENT: OMS Nozzle (N₂₈)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter OMS Nozzle

MODEL SCALE = .015

Model Drawing No. SS-A00147

DRAWING NO. VL70-000140ADIMENSIONSFULL SCALEMODEL SCALE

Mach No. _____

Length ~ in.

Gimbal Point to Exit Plane

Throat to Exit Plane

Diameter ~ in.

Exit

Throat

Inlet

Area ~ ft².

Exit

Throat

Gimbal Point (station) ~ in.

X

1518.022.77

Y

+ 88.01.32

Z

492.0 -7.38

Null Position ~ deg.

Pitch

15° 49'15° 49'

Yaw (Outboard)

12° 17'12° 17'

TABLE III. - Continued.

*REVISED 4/24/74

MODEL COMPONENT: Rudder (R₅)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter RudderModel Scale = 0.015Model Drawing No. SS-A00148DRAWING NUMBER: VL70-000095, VL70-000146A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
* Area - FT ²	<u>100.15</u>	<u>0.0225</u>
Span (equivalent) - IN.	<u>201.0</u>	<u>3.015</u>
Inb'd equivalent chord	<u>91.585</u>	<u>1.374</u>
Outb'd equivalent chord	<u>50.833</u>	<u>0.762</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Tailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
*Area Moment (Product of Area & \bar{C})- FT ³	<u>610.92</u>	<u>.0021</u>
* Product of Area and Mean Chord - In.	<u>73.2</u>	<u>1.098</u>

TABLE III. - Continued.

*REVISED 4/24/74

MODEL COMPONENT: Vertical Tail (Vg)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Vertical Tail

NOTE: Similar to V5 with radius on TE upper corner and LE lower corner
 where vertical meets fuselage.

Model Scale = 0.015

Model Drawing No. SS-A00148

DRAWING NUMBER:

VL70-000140A

VL70-000146A

DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATA

Area (Theo) Ft ²	413.253	0.09298
Planform		
Span (Theo) In	315.720	4.73580
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.40399	0.40399
Sweep Back Angles, degrees		
Leading Edge	45.00	45.00
*Trailing Edge	26.2	26.2
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.500	4.02750
Tip (Theo) WP	108.470	1.62705
MAC	199.80756	2.99711
Fus. Sta. of .25 MAC	1463.50	21.95250
W. P. of .25 MAC	635.522	9.53283
B. L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle Deg	10.00	10.00
Trailing Wedge Angle Deg	14.920	14.920
Leading Edge Radius (Min) - IN.	2.00	0.0300
Void Area	13.17	0.00296
Blanketed Area	0.00	0.00

TABLE III. - Concluded.

REVISED 4/24/74

MODEL COMPONENT: <u>WING-W₁₁₆</u>		
GENERAL DESCRIPTION: <u>Configuration 140A/B Orbiter Wing</u>		
NOTE: Identical to W ₁₁₁ , except airfoil thickness. Dihedral angle is along trailing edge of wing.		
MODEL SCALE: <u>0.015</u>	MODEL DRAWING NO. <u>33-A00148</u>	
TEST NO.	DWG. NO. <u>VL70-000140B</u>	
	<u>VL70-000200</u>	
<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
<u>TOTAL DATA</u>		
Area (Theo.) Ft ²		
Planform	2690.00	0.6053
Span (Theo) In.	936.6816	14.050
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees	+ 3.000	+ 3.000
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	12.056	10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.O.O.	689.2429	10.339
Tip, (Theo) B.P.	187.8486	2.058
MAC	474.8117	7.122
Fus. Sta. of .25 MAC	1126.83	16.902
W.P. of .25 MAC	290.58	4.359
B.L. of .25 MAC	182.13	2.732
<u>EXPOSED DATA</u>		
Area (Theo) Ft ²	1751.50	0.3941
Span, (Theo) In. BP108	720.68	10.810
Aspect Ratio	2.059	2.059
Taper Ratio	0.245	0.245
Chords		
Root JP108	562.09	8.431
Tip 1.00 b	137.85	2.06
MAC	302.83	5.892
Fus. Sta. of .25 MAC	1185.98	17.790
W.P. of .25 MAC	294.30	4.415
B.L. of .25 MAC	251.77	3.777
Airfoil Section (Rockwell Mod NASA)		
XXXX-64		
Root $\frac{b}{2}$	0.113	0.113
Tip $\frac{b}{2}$	0.12	0.12
<u>Data for (1) of (2) Sides</u>		
Leading Edge Cuff		
Planform Area Ft ²	113.18	0.0255
Leading Edge Intersects Fus M. L. @ Sta	500.00	7.500
Leading Edge Intersects Wing @ Sta	1524.00	15.360

TABLE IV. DATASET COMBINATIONS USED TO OBTAIN INCREMENTAL DATA

RESULTING DATASET	MINUEND DATASET	SUBTRAHEND DATASET	RESULTING DATA	α	δe	δBF
Q,S,T,U,V,WER012 3 4 5 6 ↓ 1ER018	RER001 RER003 RER005 RER006 RER007 RER008	RER012 RER013 RER014 RER015 RER016 RER018	Nozzle increment + sting interference tares ↓	Vary Vary Vary Vary Vary 10	0 15 0 0 0 0	-11.7 -11.7 16.3 0 -11.7 -11.7
Q,S,T,U,V,WER009 1ER010 1ER011	RER001 RER007 RER008	RER009 RER010 RER011	Sting interference tare ↓	Vary 0 10	0 0 0	-11.7 -11.7 -11.7
1,2,3ER019 20 22 23 ↓ 1ER024	RER019,12 RER020,13 RER022,15 RER023,14 RER024,18	RER001 RER003 RER006 RER005 RER008	Sting mounted nozzle-off data with corrections applied ↓	Vary Vary Vary Vary 10	0 15 0 0 0	-11.7 -11.7 0 16.3 -11.7

NOTE:

- VERTICAL TAIL WAS REPLACED BY A NON-METRIC BLADE STRUT FOR STRUT MOUNTING. INCREMENTAL VERTICAL TAIL FORCES WERE ESTIMATED FROM PRESSURES MEASURED IN THE SPEED BRAKE BASE REGION.
- [NOZZLE INCREMENT + STING INTERFERENCE TARE] = [MODEL + STRUT + DUMMY STING] - [MODEL + STRUT + NOZZLE]
- [STING INTERFERENCE TARE] = [MODEL + STRUT + DUMMY STING] - [MODEL + STRUT]
- [CORRECTED DATA] = [MODEL STING-MOUNTED] - [NOZZLE INCREMENT + STING INTERFERENCE TARE]

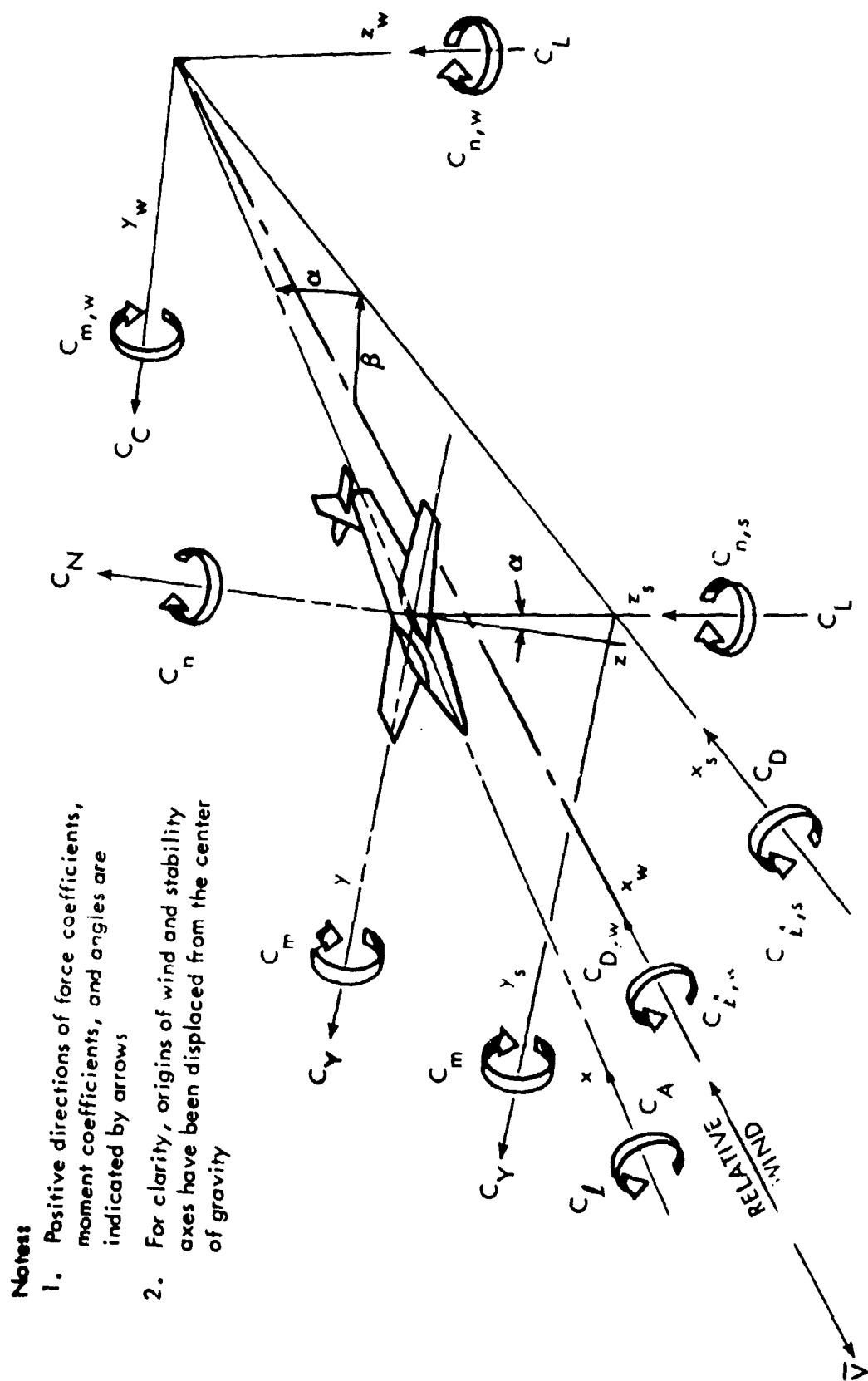
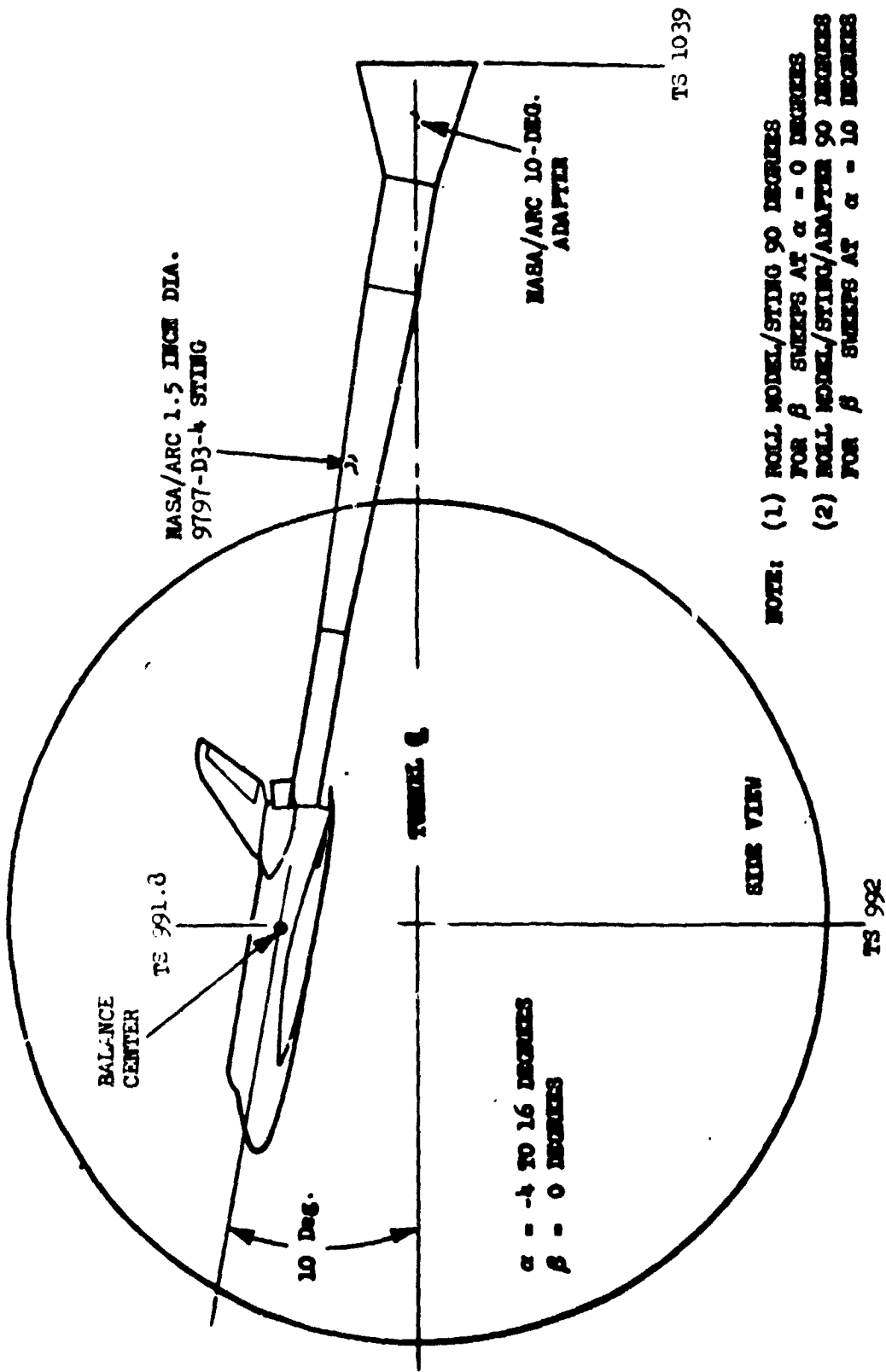
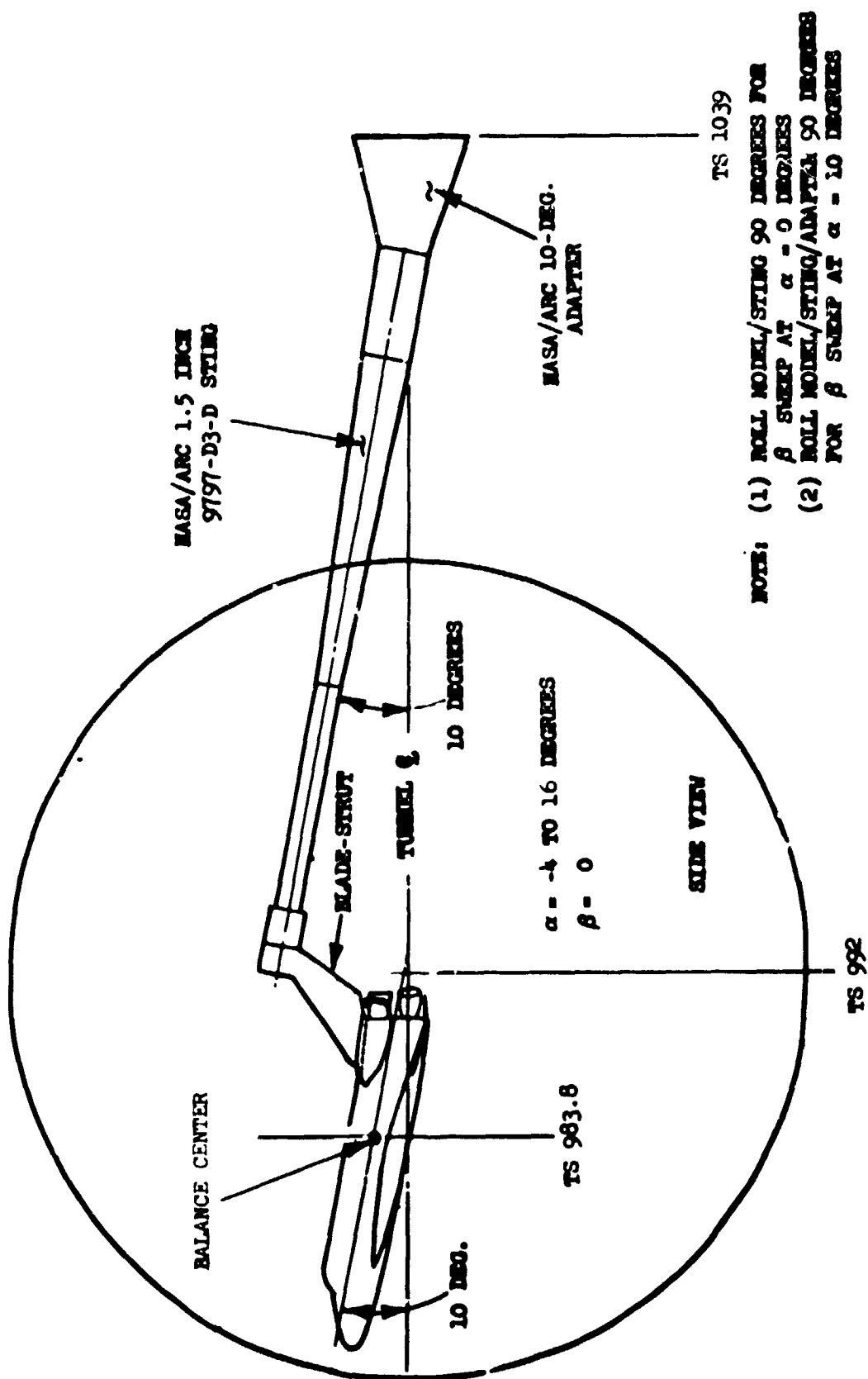


Figure 1. - Axis systems.



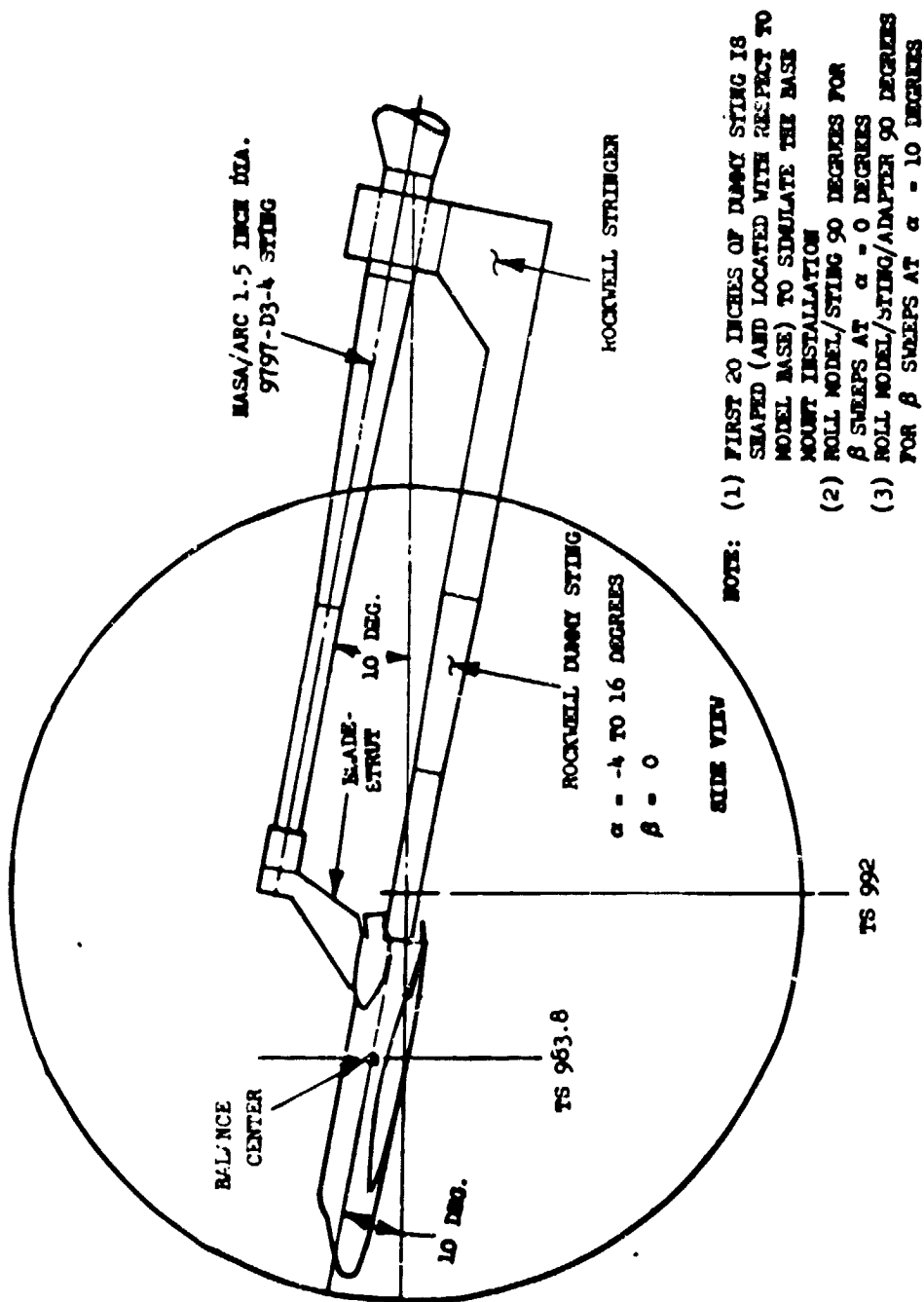
a. Base Mount Tunnel Installation for Test OA59

Figure 2. - Model sketches.



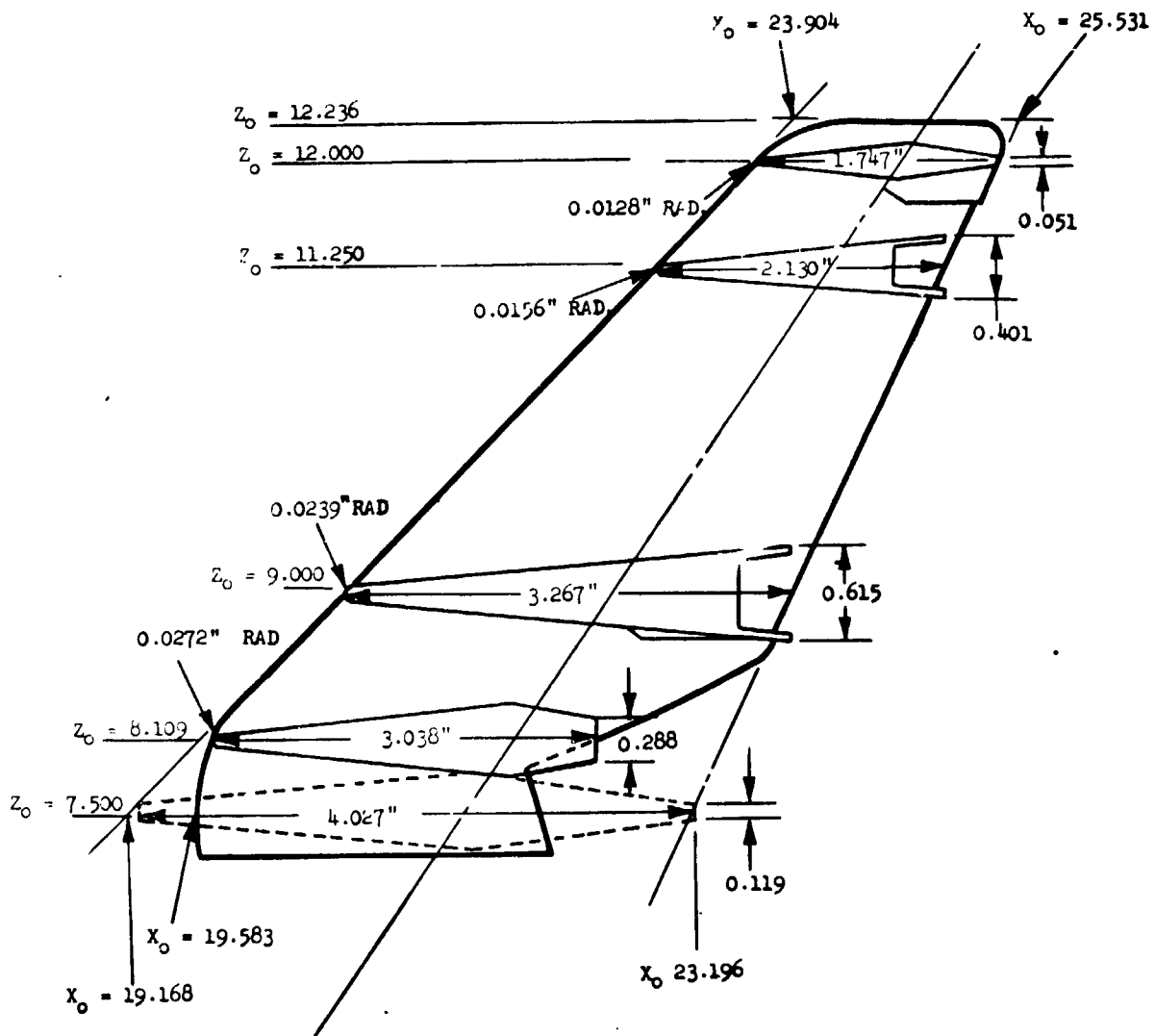
b. Blade-Strut Mount Tunnel Installation for Test OA59

Figure 2. - Continued.



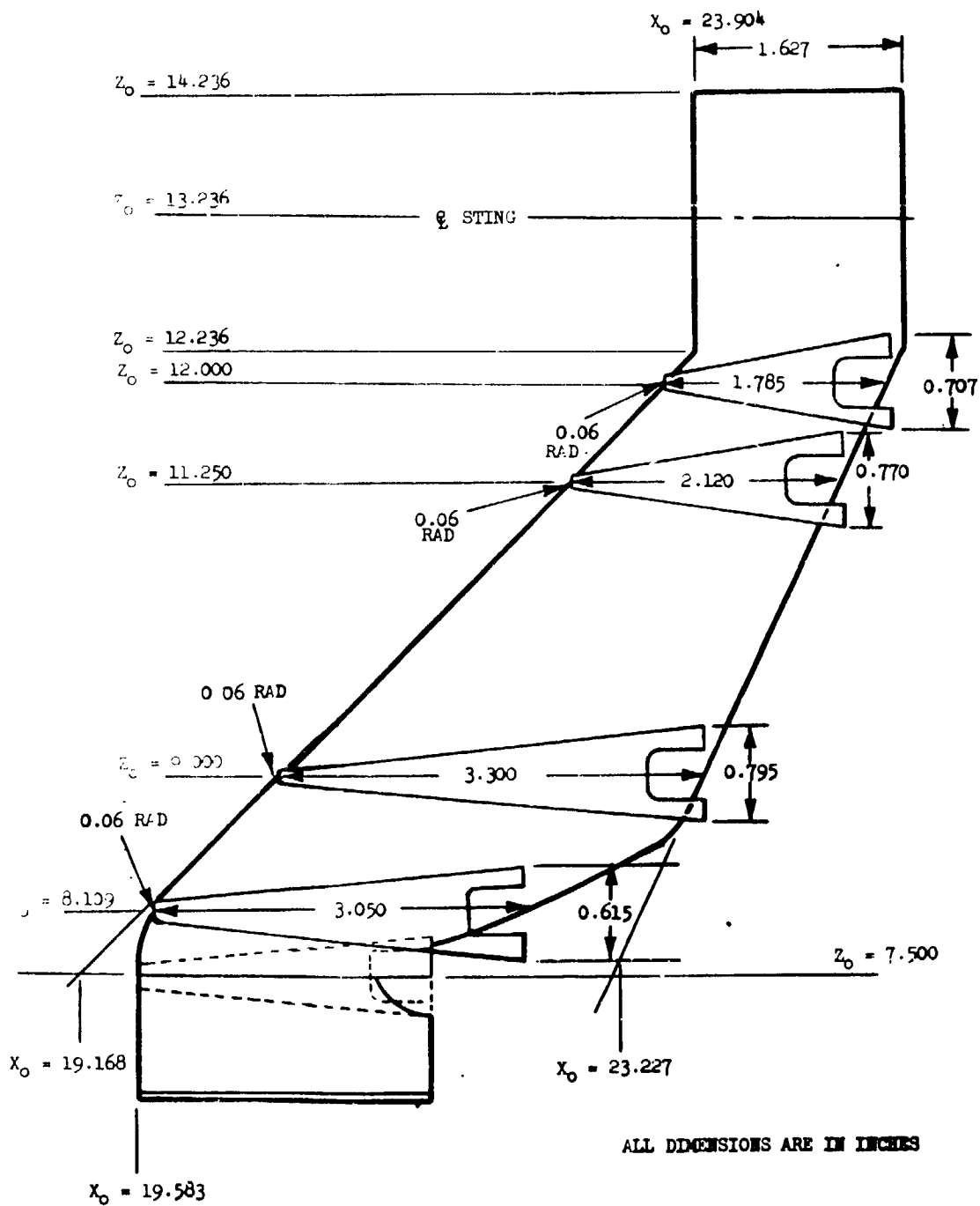
c. Blade-Mount Tunnel Installation with Dummy Sting for Test 0.50

Figure 2. - Continued.



d. Vertical Tail Cross-Sections 24.92° Speed Brake

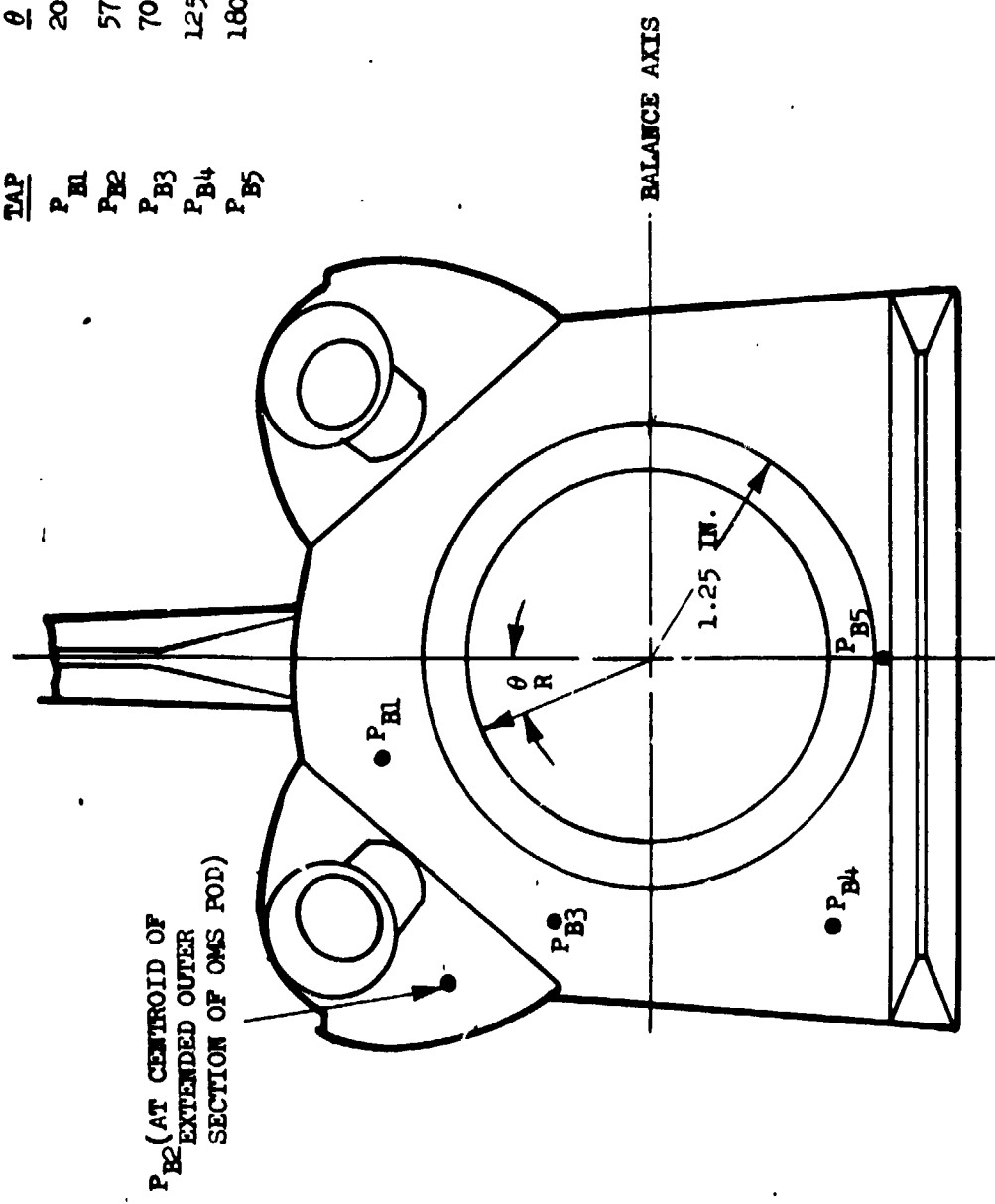
Figure 2. - Continued.



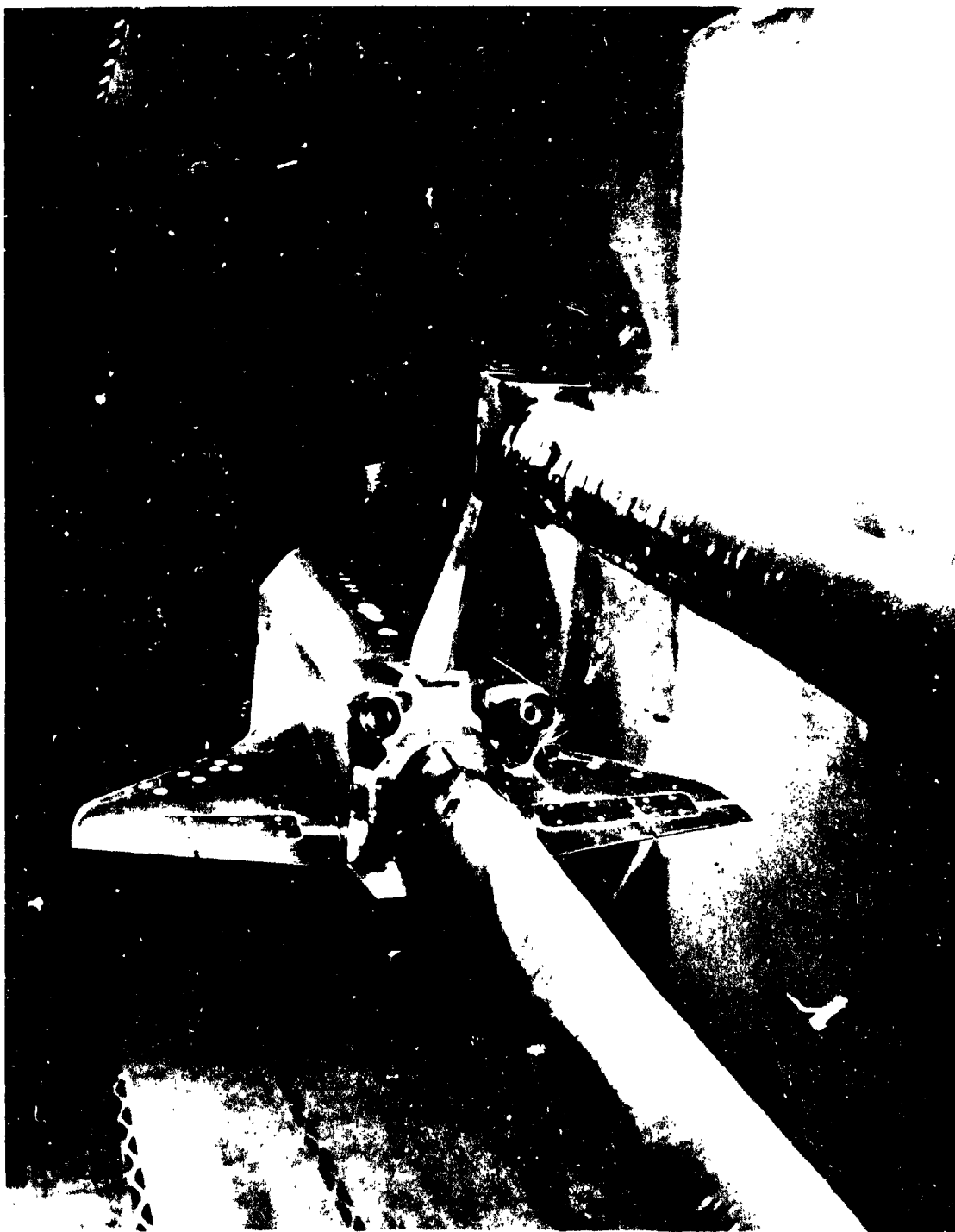
e. Blade-Strut used for Test OA59
Figure 2. - Continued.

θ	R
20°	1.60 IN.
57°	2.10 IN.
70°	1.50 IN.
125°	1.76 IN.
180°	1.29 IN.

TAP
P _{B1}
P _{B2}
P _{B3}
P _{B4}
P _{B5}

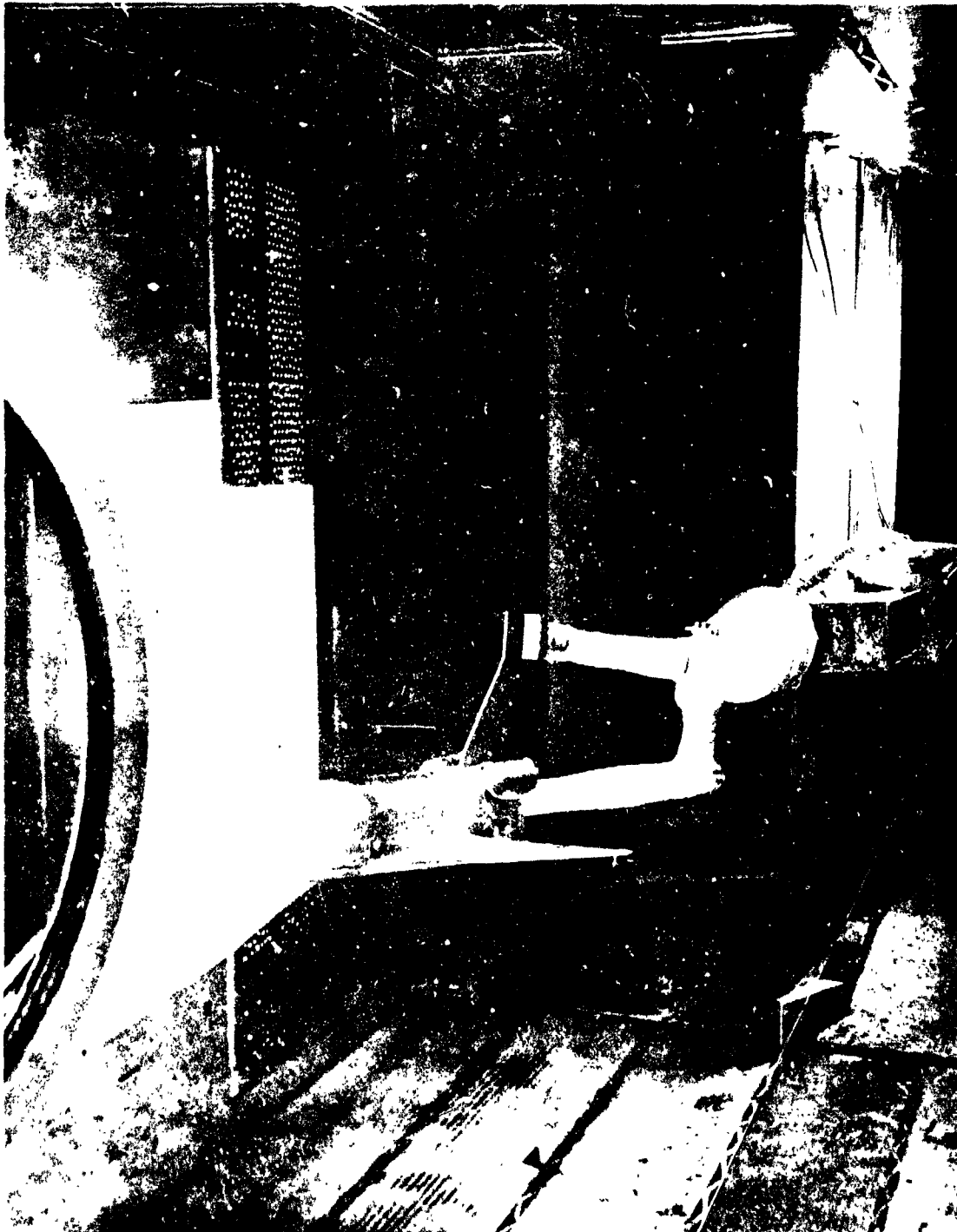


f. Base and Cavity Pressure Locations
Figure 2. - Concluded.



a. Rear 3/4 View

Figure 3. - Model installation photographs.



b. Front 3/4 View

Figure 3. - Concluded.

DATA FIGURES
VOLUME II
FIGURES 10 - 15
(REFER TO VOLUME I
FOR FIGURES 4-9)

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

BOFLAP
 .000 -11.700
 .000 -11.700
 .000 -11.700
 .000 -11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (YER007) ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT+DUM STING
 (YER010) ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT
 (YER016) ARC 66-709 DASS DA11A-(RS V8)+STRUT
 (YER017) DATA NOT AVAILABLE

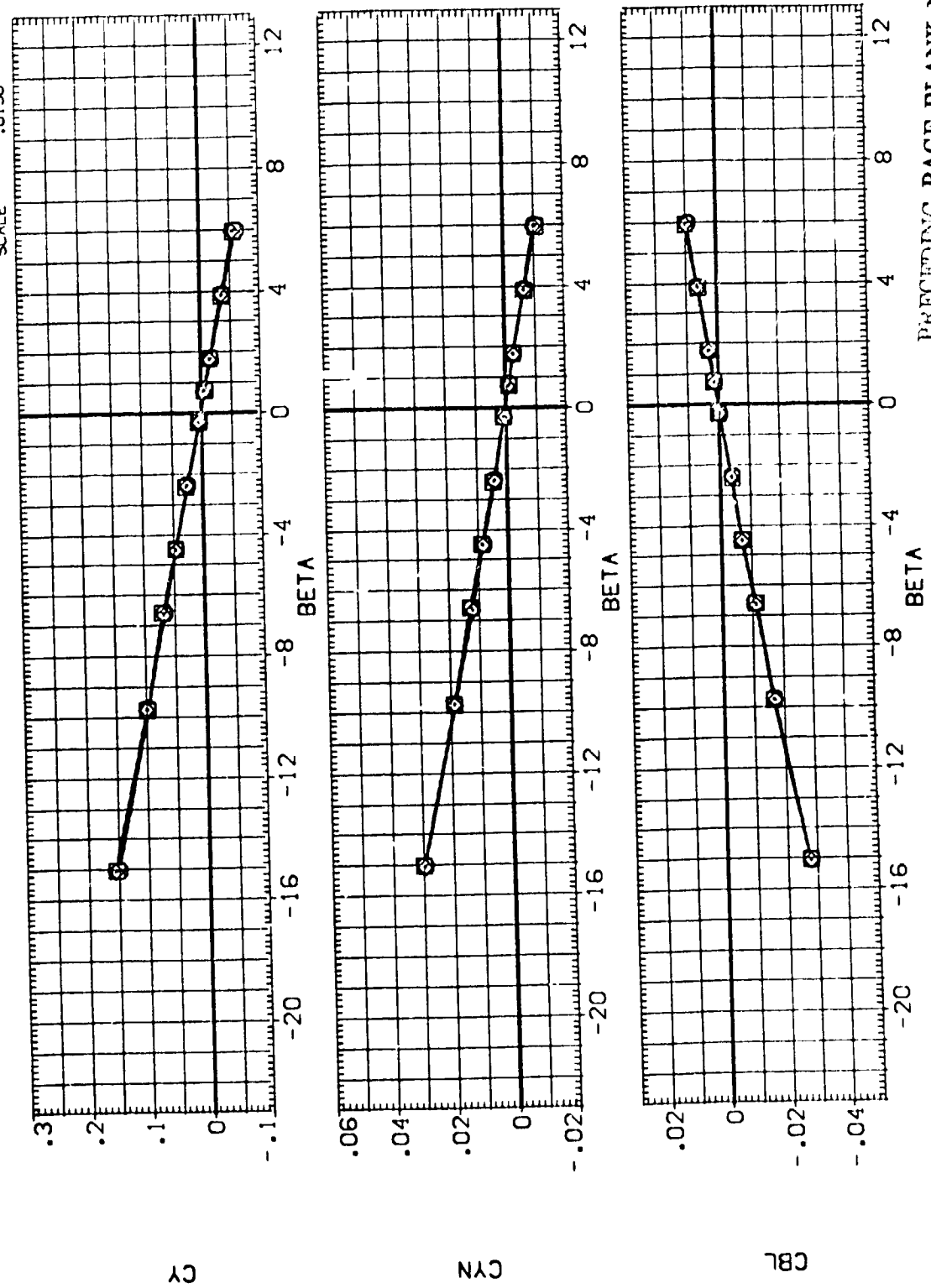



FIG. 10 TARE YAW RUNS AT ALPHA = 0.0 DEG.

(A)MACH = .60

DATA SET SYMBOL:  CONFIGURATION DESCRIPTION: ARC 66-709 D459 DA11A-(N24 RS V8)+STRUT+DUM STING
 (YER007) DATA NOT AVAILABLE
 (YER010) DATA NOT AVAILABLE
 (YER016) DATA NOT AVAILABLE
 (YER017) DATA NOT AVAILABLE

ALPHA: .000
 ELEVON: .000
 BOFLAP: -11.700

REFERENCE INFORMATION:
 SREF: .6053 SQ.FT.
 LREF: .5935 FT.
 BREF: 1.1710 FT.
 XMRP: 12.6255 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

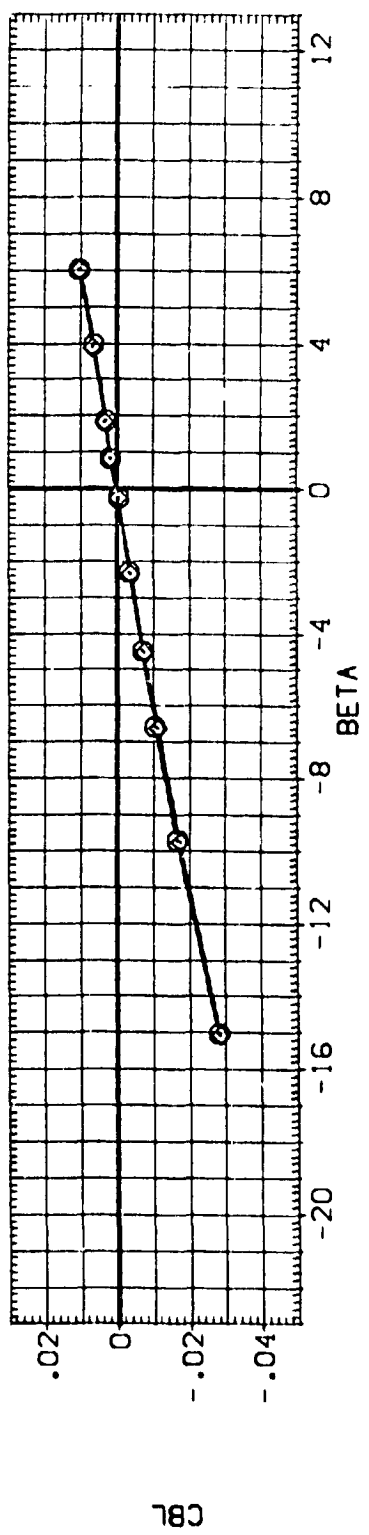
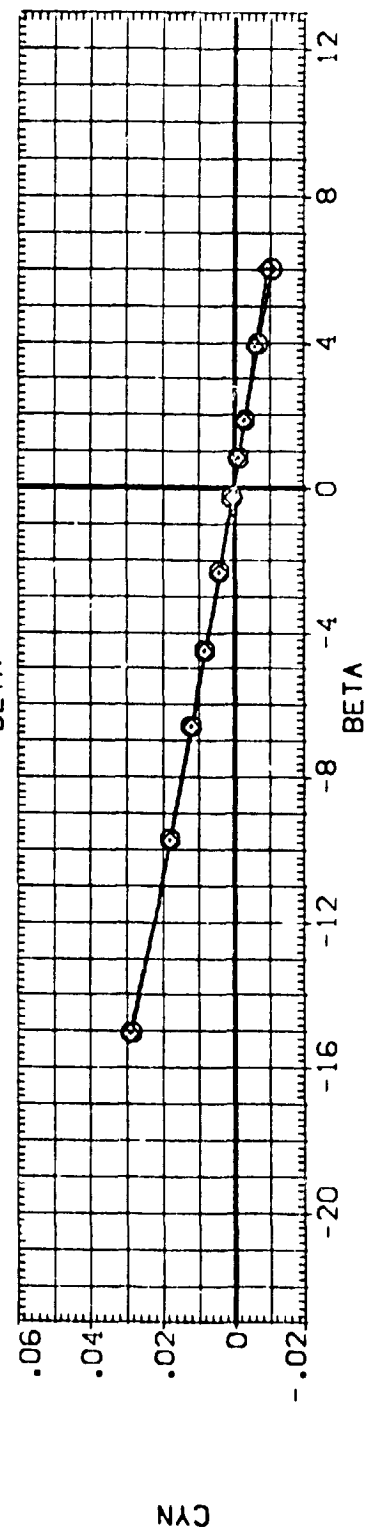
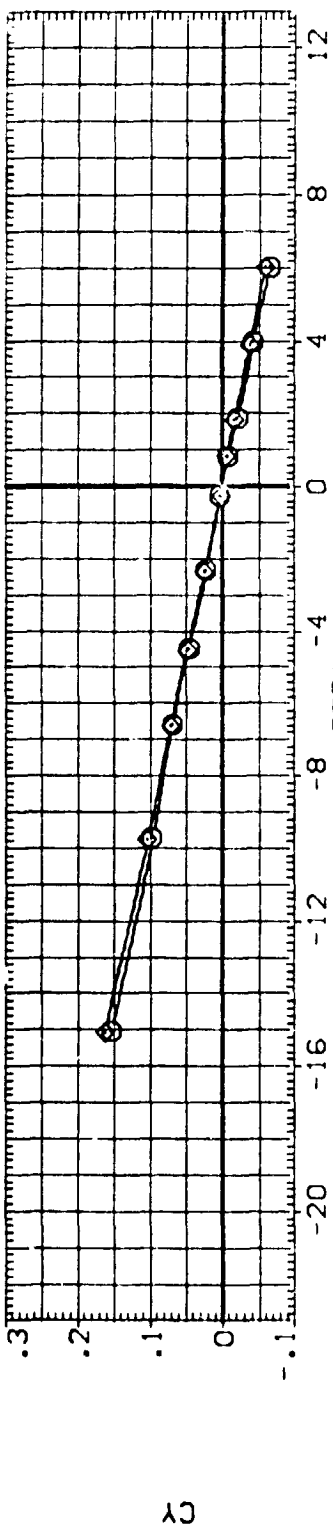


FIG. 10 TARE YAW RUNS AT ALPHA = 0.0 DEG.
 (B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVATION	BOFLAP	REFERENCE INFORMATION
(YER007)	ARC 66-709 DASS 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SC.FT.
(YER010)	ARC 66-709 DASS 0A11A-(N24 RS V81)*STRUT	.000	.000	-11.700	LREF .5935 FT.
(YER016)	ARC 66-709 DASS 0A11A-(RS V81)*STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(YER017)	DATA NOT AVAILABLE	.000	.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

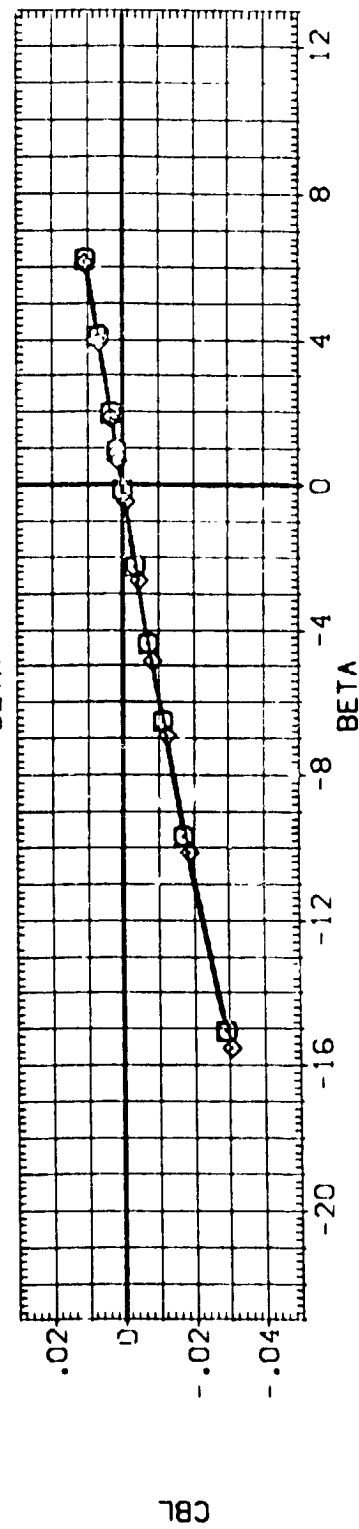
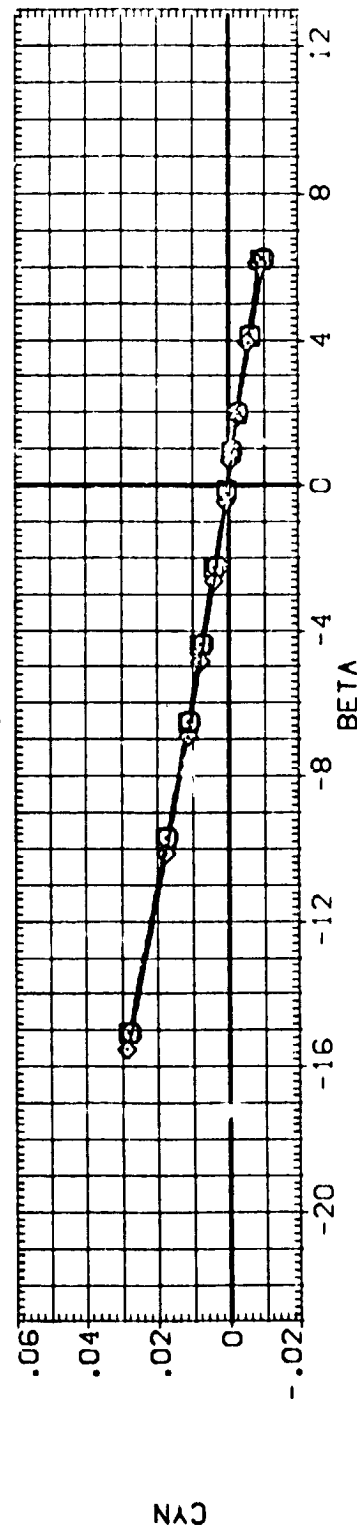
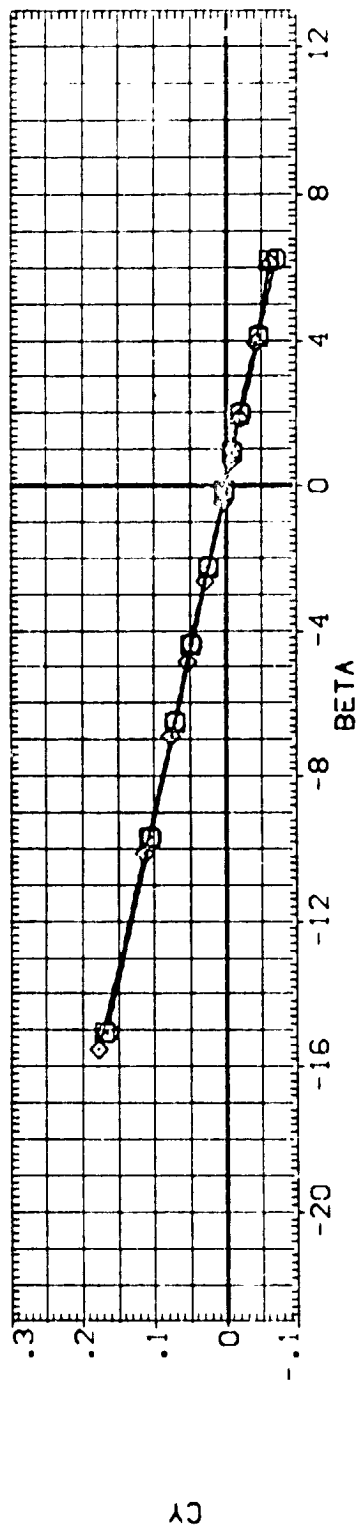


FIG. 10 TARE YAW RUNS AT ALPHA = 0.0 DEG.

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	BOFLAP	REFERENCE INFORMATION
(YER007)	ARC 66-709 OAS9 CA11A-(N24 RS V8)*STRUT+OUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(YER010)	ARC 66-709 OAS9 CA11A-(N24 RS V8)*STRUT	.000	.000	-11.700	LREF .5935 FT.
(YER016)	ARC 66-709 OAS9 CA11A-(RS V8)*STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(YER017)	DATA NOT AVAILABLE				XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

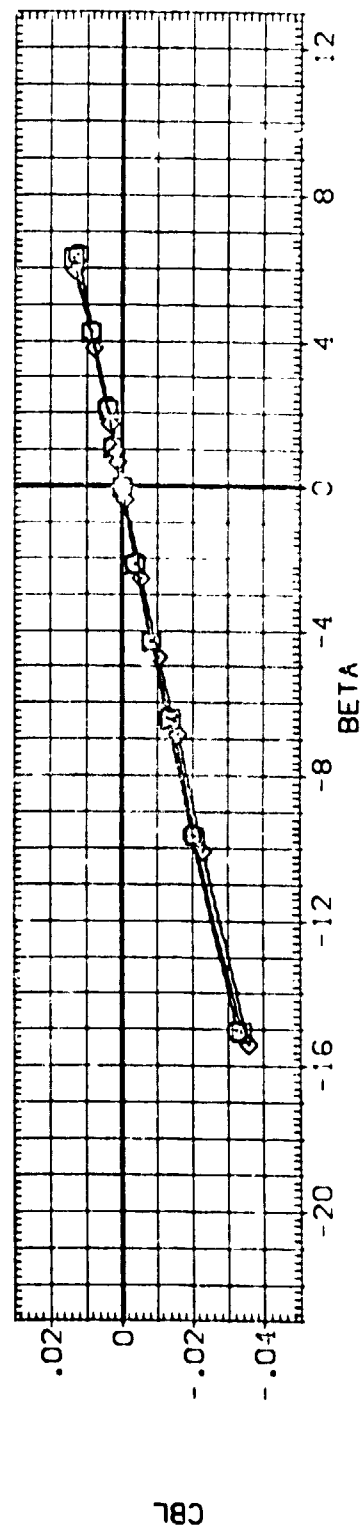
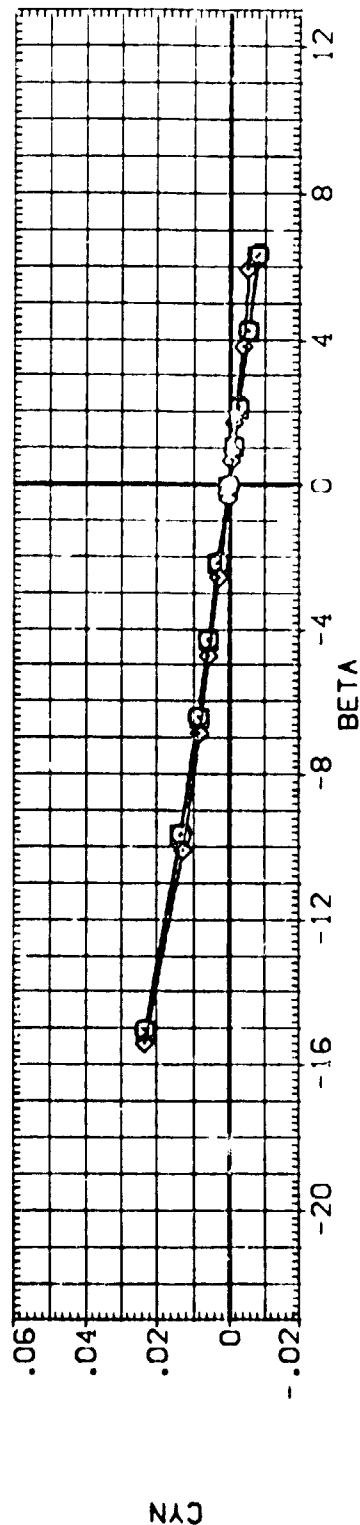
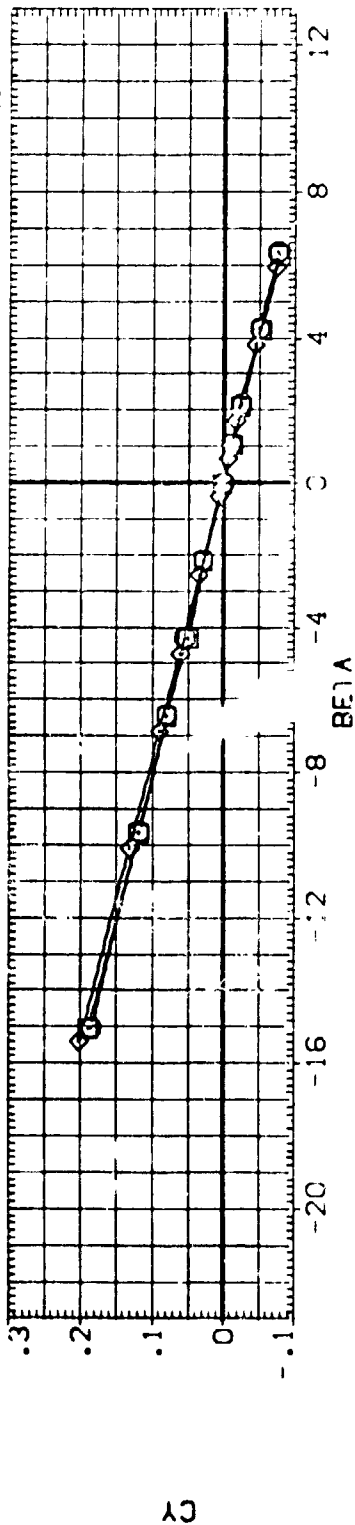


FIG. 10 TARE YAW RUNS AT ALPHA = 0.0 DEG.

(D)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	BOFLAP	REFERENCE INFORMATION
[VER007]	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SC.FT.
[VER010]	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 F.
[VER016]	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.110 F.
[VER017]	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

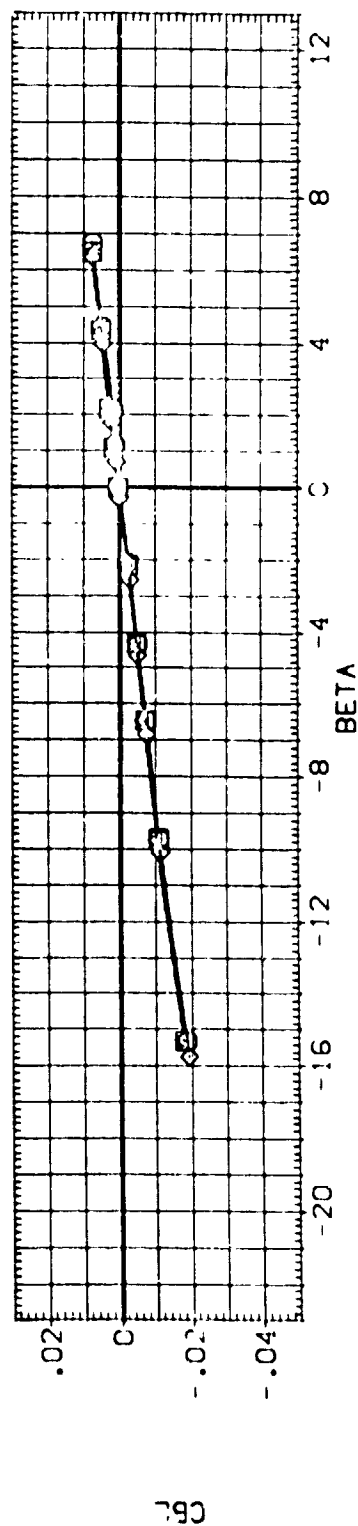
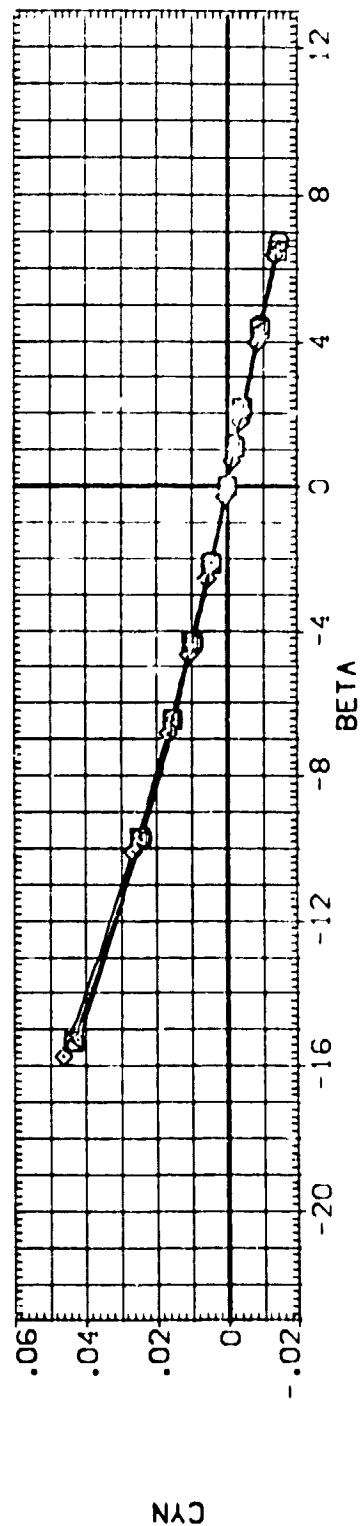
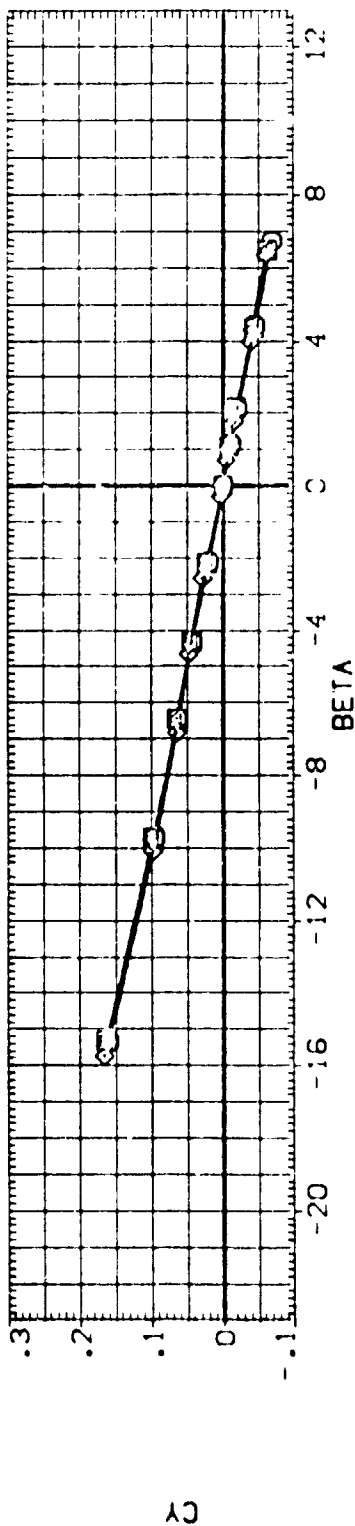


FIG. 10 TARE YAW RUNS AT ALPHA = 0.0 DEG.

(E)MAC = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (YER007) DATA NOT AVAILABLE
 (YER010) ARC 66-709 DA59 QA11A-(N24 RS V8)*STRUT
 (YER016) ARC 66-709 DA59 QA11A-(RS V8)*STRUT
 (YER017) ARC 66-709 DA59 QA11A-(RS V8)*STRUT

ALPHA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5936 FT.
 BRCE 1.1710 FT.
 YMRP 12.6755 IN.
 ZMRP .0003 IN.
 ZMRP -.3750 IN.
 SCALE .0150

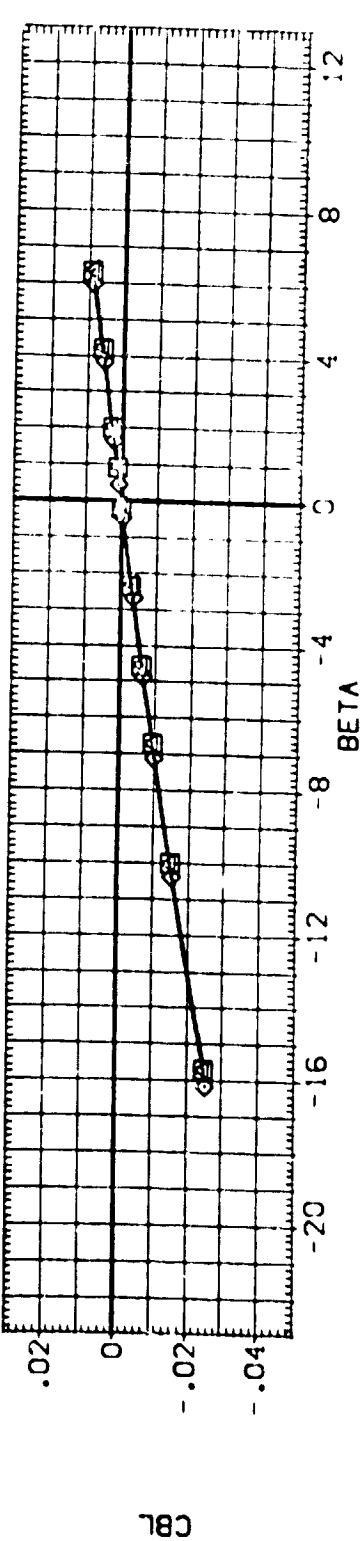
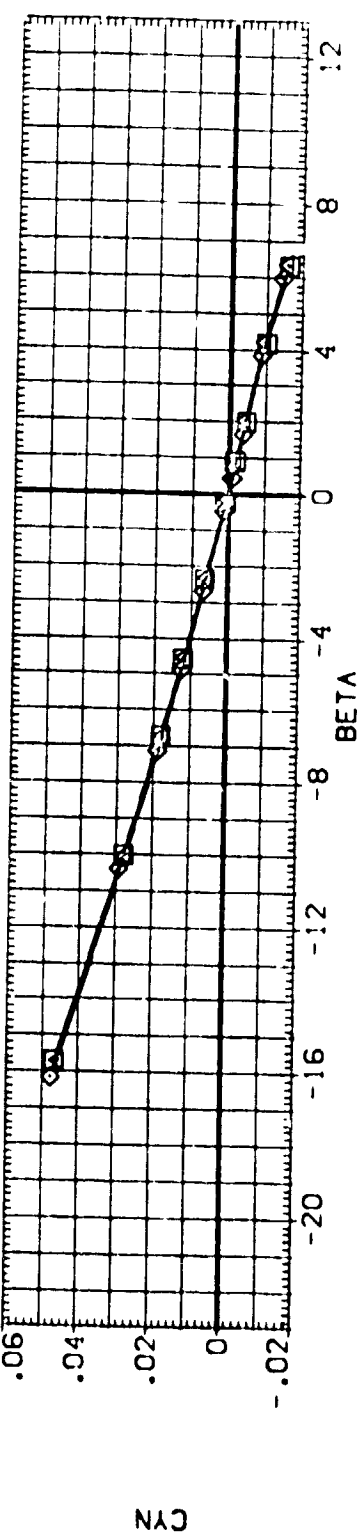
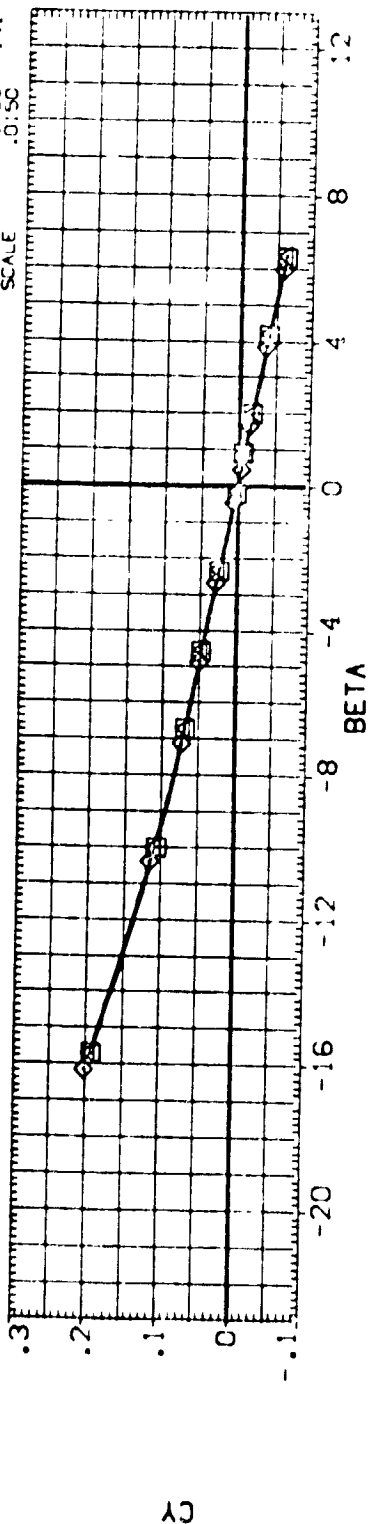


FIG. 10 TARE YAW RUNS AT ALPHA = 0.0 DEG.

(F)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	BDF LAP	REFERENCE INFORMATION
[VER007]	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
[VER010]	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935
[VER016]	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710
[VER017]	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE 0.150

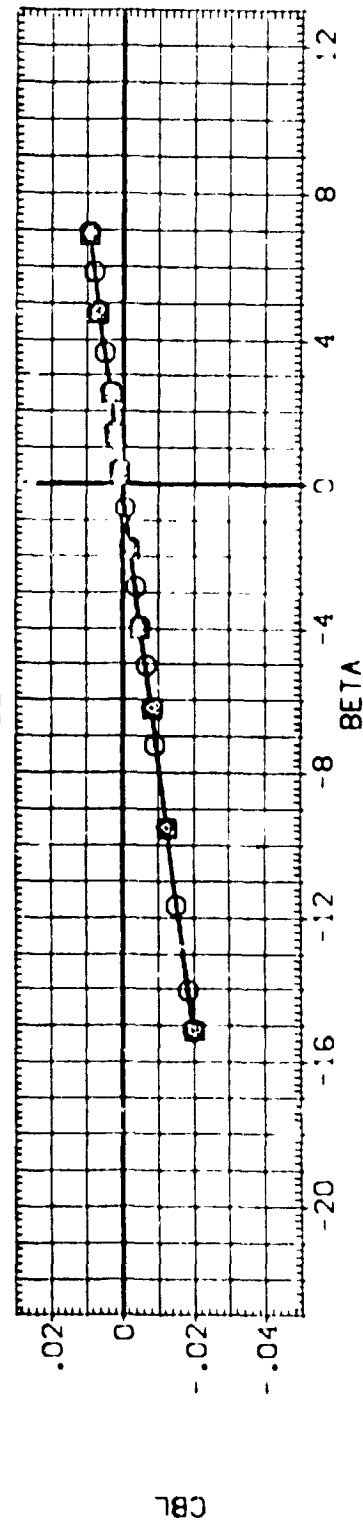
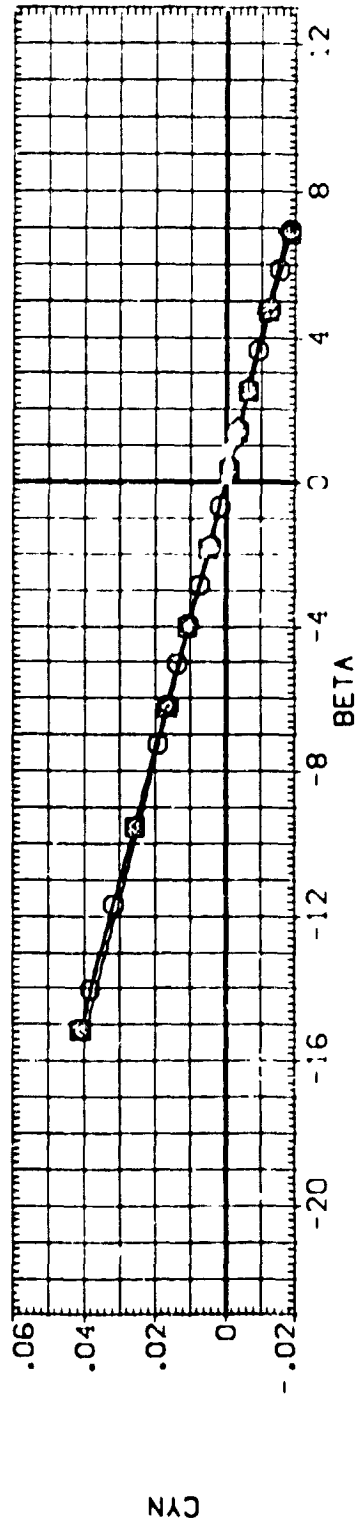
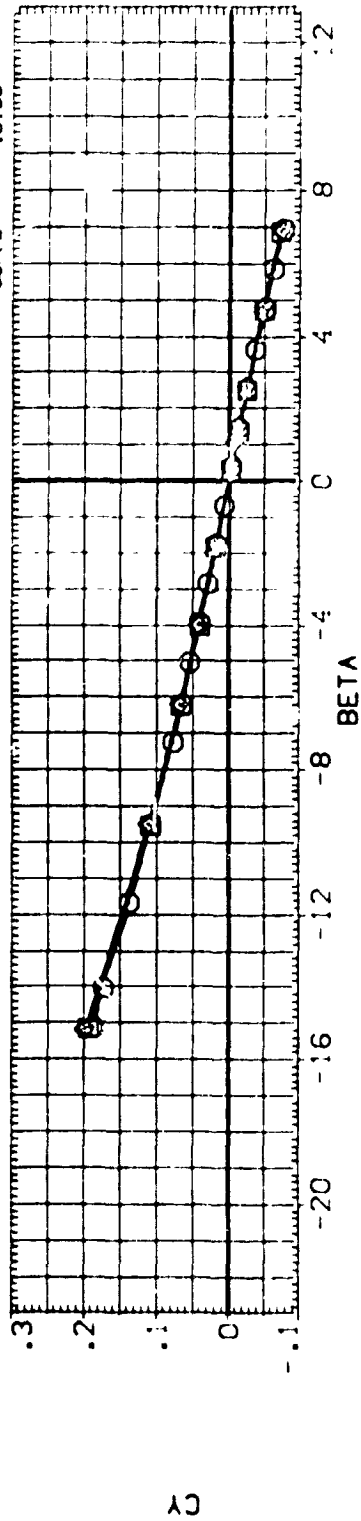


FIG. 10 TARE YAW RUNS AT ALPHA = 0.0 DEG.

(G)MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVATION	BOFLAP	REFERENCE INFORMATION
(VER008)	ARC 66-709 DASS DALLA-(N24 RS V8)+STRUT+DUM STAG	10.000	0.00	0.00	SREF 6053 SG.FT.
(VER011)	ARC 66-709 DASS DALLA-(N24 RS V8)+STRUT	10.000	0.00	0.00	LREF 5535 FT.
(VER018)	ARC 66-709 DASS DALLA-(RS V8)+STRUT	10.000	0.00	0.00	SREF 12.6255 IN.
					YREF 0.0000 IN.
					ZREF -1.3750 IN.
					SCALE 0.150

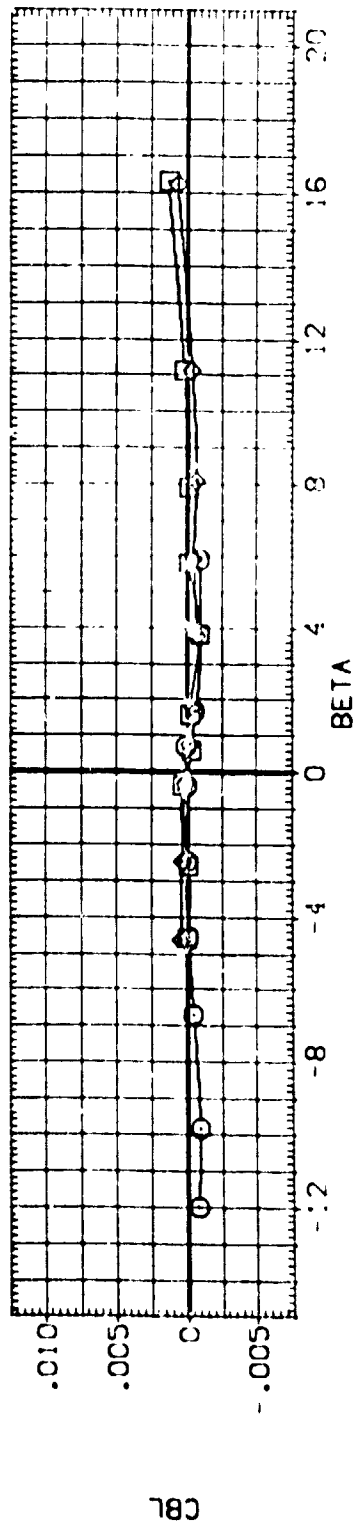
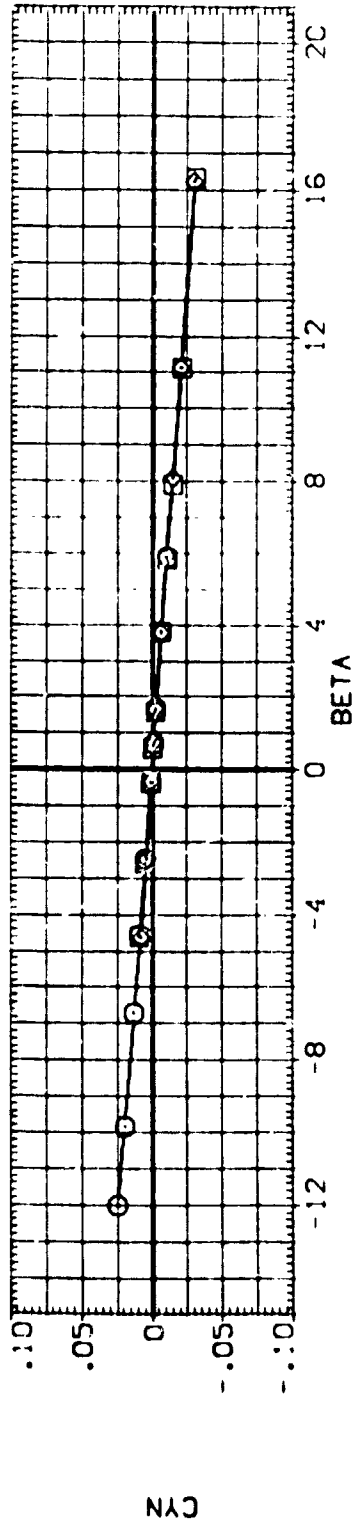
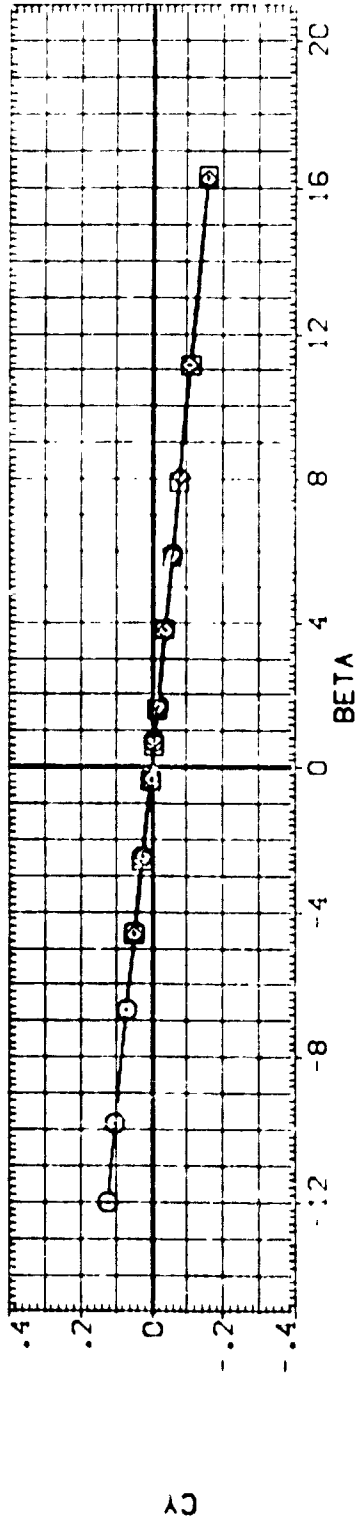


FIG. 11 TARE YAW RUNS AT ALPHA = 10.0 DEG.

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	BDF LAP	REFERENCE INFORMATION
(YERO08)	ARC 66-709 QAS9 0A11A-(N24 RS V81+STRUT+DUM STING	10.000	.000	-11.700	SREF .6053 50.FT.
(YERO11)	ARC 66-709 QAS9 0A11A-(N24 RS V81+STRUT	10.000	.000	-11.700	LREF .5935 FT.
(YERO18)	ARC 66-709 QAS9 0A11A-(RS V81+STRUT	10.000	.000	-11.700	BREF 1.1710 IN.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

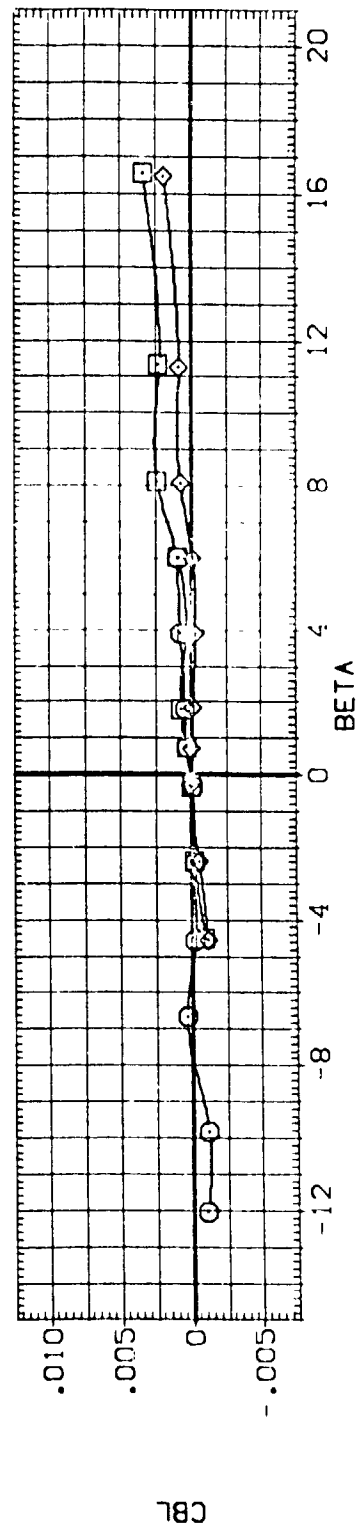
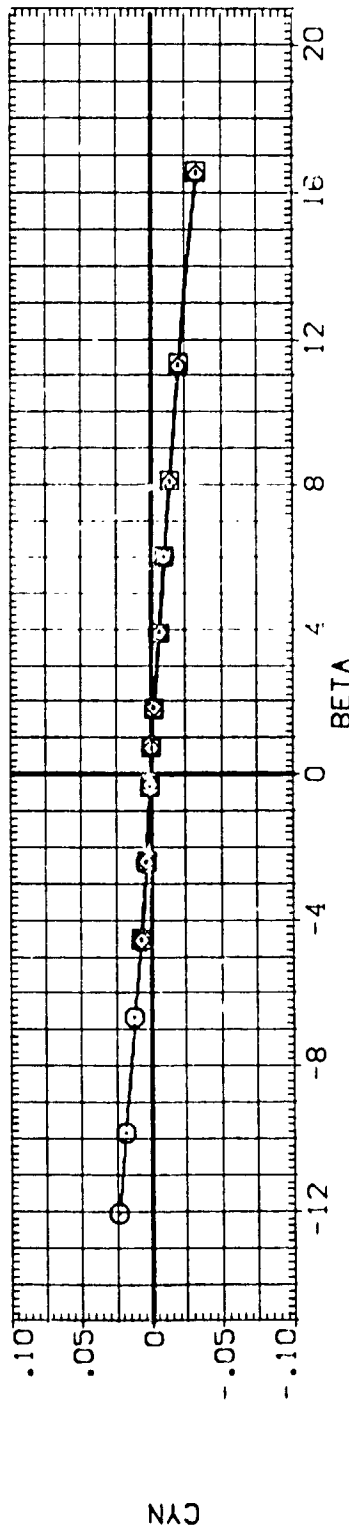
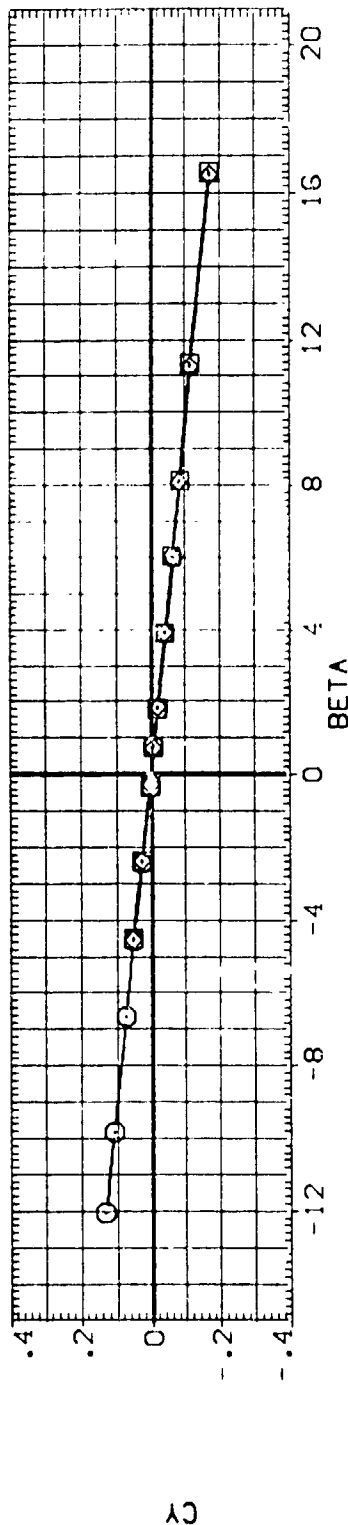


FIG. 11 TARE YAW RUNS AT ALPHA = 10.0 DEG.

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	BOFLAP	REFERENCE INFORMATION
(YER008)	ARC 66-709 DAS9 DALLA-(N24 R5 V8)+STRUT+DUM STNG	10.000	.000	-11.700	SREF .6053 50.FT.
(YER011)	ARC 66-709 DAS9 DALLA-(N24 R5 V8)+STRUT	10.000	.000	-11.700	LREF .5935 FT.
(YER018)	ARC 66-709 DAS9 DALLA-(R5 V8)+STRUT	10.000	.000	-11.700	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

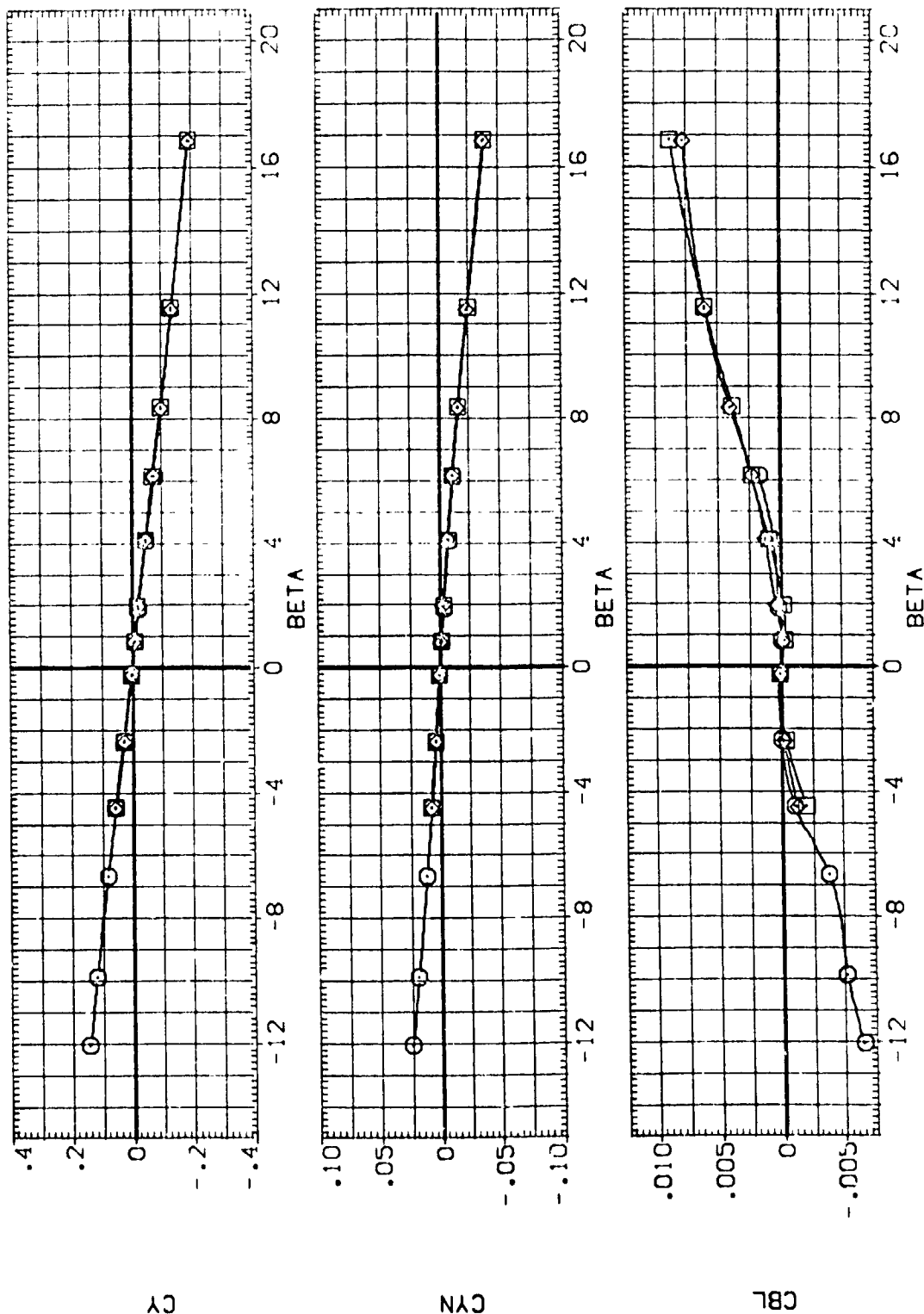


FIG. 11 TARE YAW RUNS AT ALPHA = 10.0 DEG.

(C)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING

ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT

ARC 66-709 0A59 0A11A-(RS V8)+STRUT

ALPHA ELEVON BDFLAP

10.000 .000 -11.700

10.000 .000 -11.700

10.000 .000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

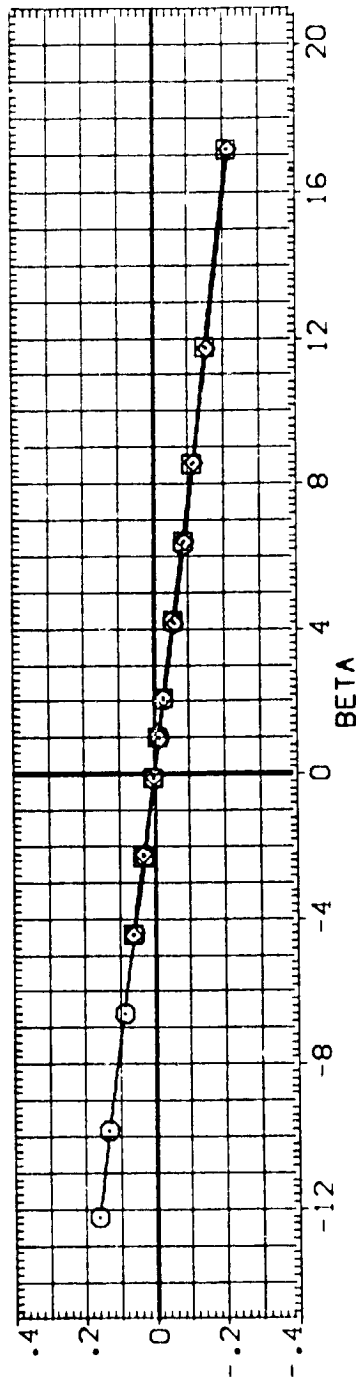
BREF 1.1710 FT.

XMPP 12.6255 IN.

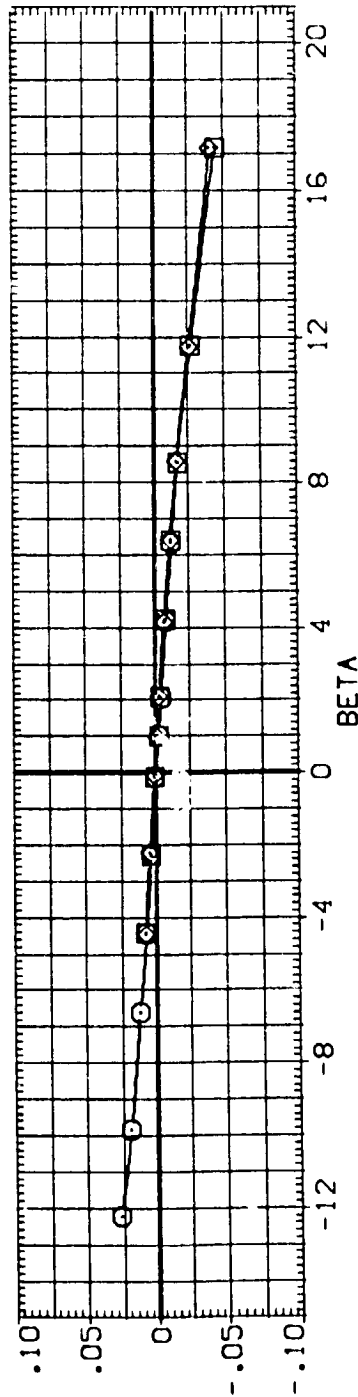
YMPP .0000 IN.

ZMPP -.3750 IN.

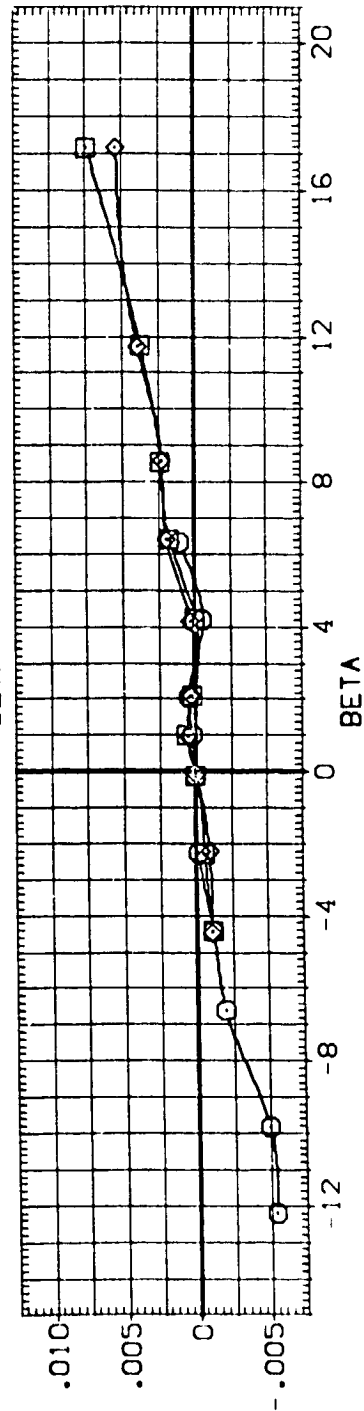
SCALE .0150



CY



CYN



CBL

FIG. 11 TARE YAW RUNS AT ALPHA = 10.0 DEG.

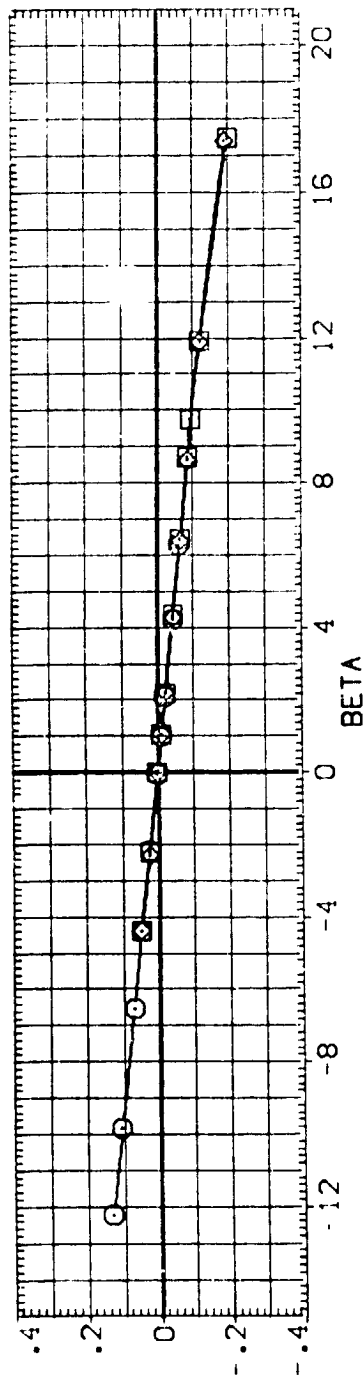
(C)MACH = .90

DATA SET SYMBOL
(YER008)
(YER011)
(YER016)

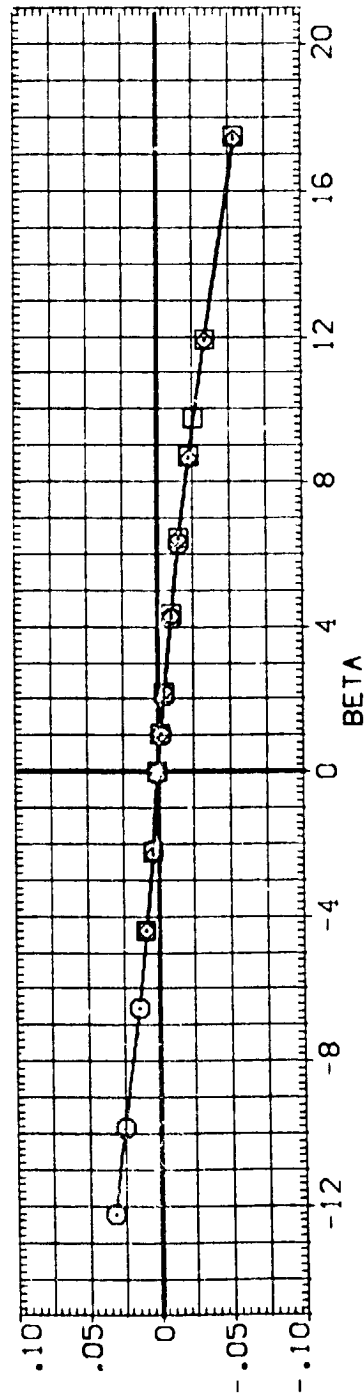
CONFIGURATION DESCRIPTION
ARC 56-709 OAS9 OAL1A-(N24 RS V8)*STRUT+DUM STNG
ARC 56-709 OAS9 OAL1A-(N24 RS V8)*STRUT
ARC 56-709 OAS9 OAL1A-(RS V8)*STRUT

ALPHA ELEVON BOFLAP
10.000 .000 -11.700
10.000 .000 -11.700
10.000 .000 -11.700

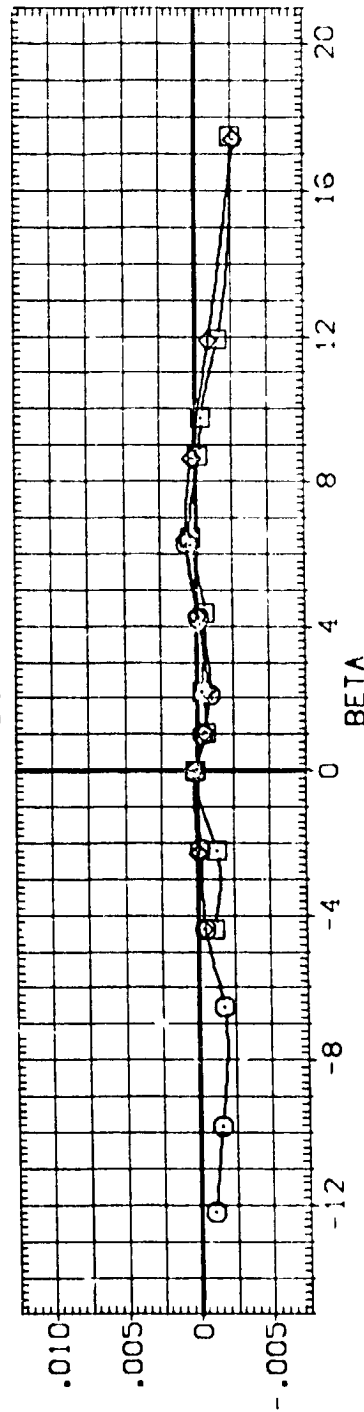
REFERENCE INFORMATION
SREF .6053 SQ.FT.
LREF .5935 FT.
BREF 1.1713 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3753 IN.
SCALE .0150



CY



CYN



CBL

FIG. 11 TARE YAW RUNS AT ALPHA = 10.0 DEG.

(E)MACH = 1.20

DATA SET SYMBOL
(YERO08)
(YERO11)
(YERO18)

CONFIGURATION DESCRIPTION
DATA NOT AVAILABLE
ARC 66-709 QAS9 QAL11A-(N24 RS V8)+STRUT
ARC 66-709 QAS9 QAL11A-(RS V8)+STRUT

REFERENCE INFORMATION
SREF -6053 50.FT.
LREF -5935 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

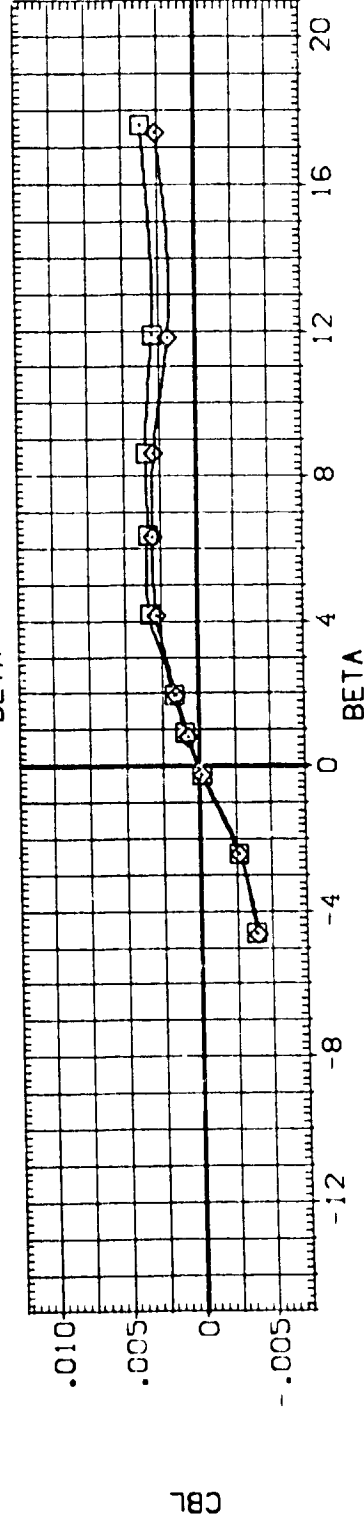
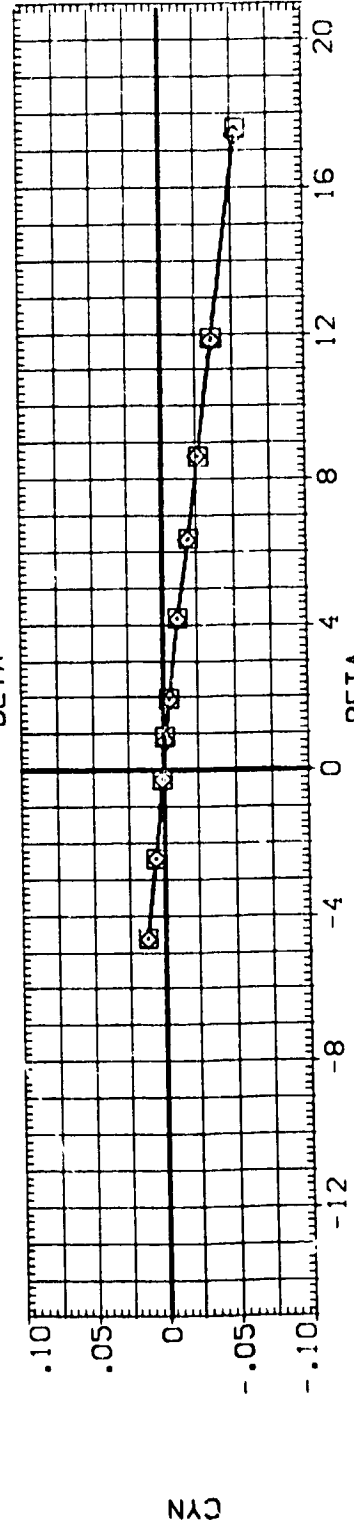
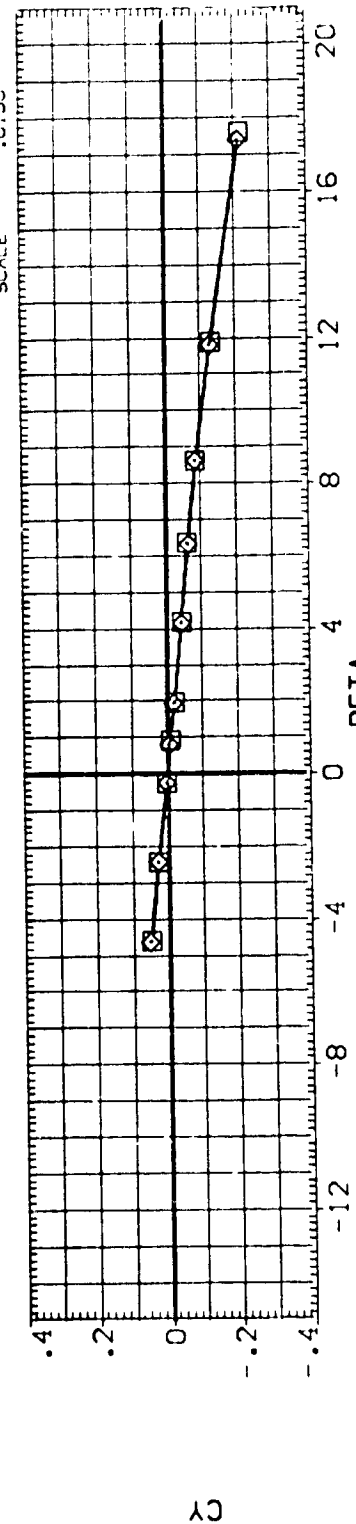


FIG. 11 TARE YAW RUNS AT ALPHA = 10.0 DEG.

(F)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (YER008) ARC 66-709 0A59 0A11A-(N24 RS VB1)+STRUT+DUM STNG
 (YER011) ARC 66-709 0A59 0A11A-(N24 RS VB1)+STRUT
 (YER018) ARC 66-709 0A59 0A11A-(RS VB1)+STRUT

ALPHA ELEVON BDF LAP
 10.000 .000 -11.700
 10.000 .000 -11.700
 10.000 .000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 F.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

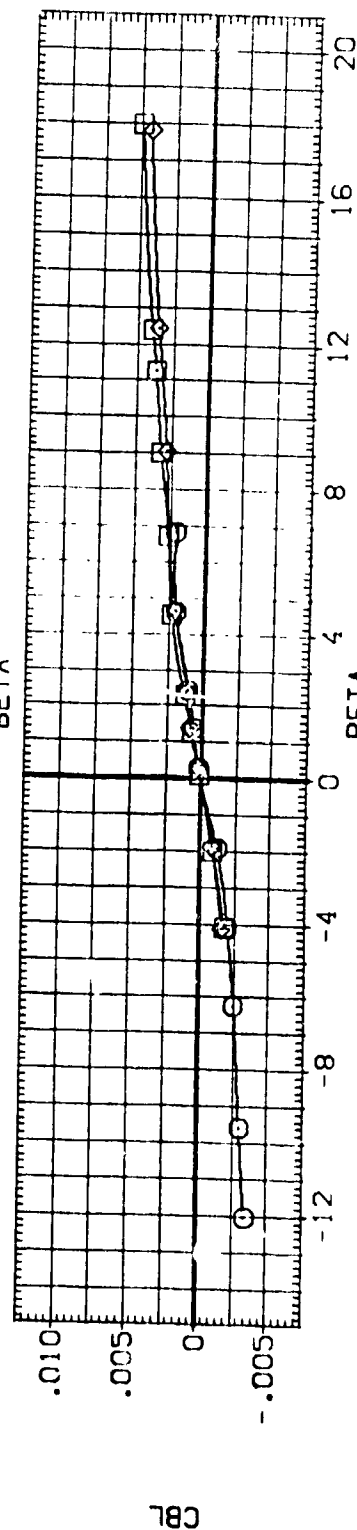
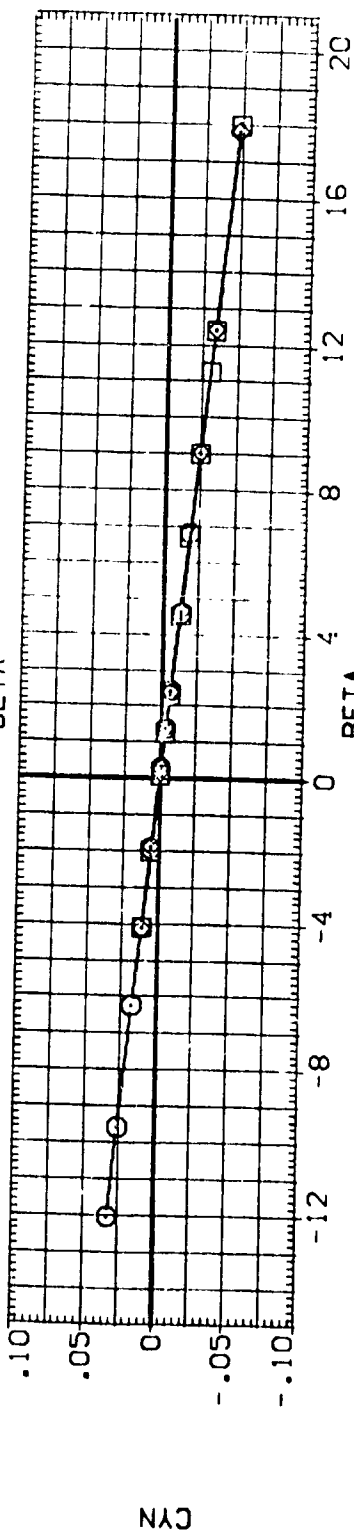
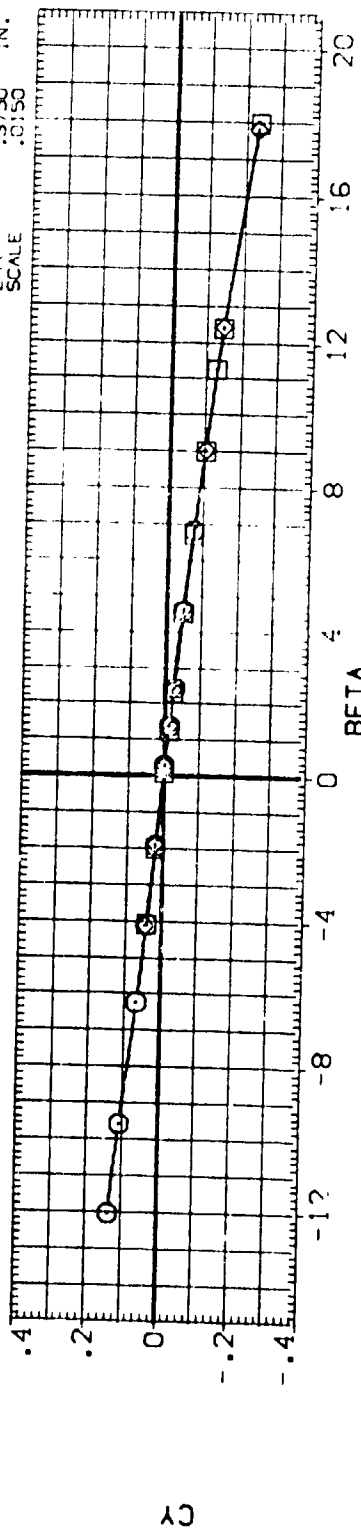


FIG. 11 TARE YAW RUNS AT ALPHA = 10.0 DEG.

(G)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	BOCLAP	REFERENCE INFORMATION
(1ER010)	ARC 66-709 OAS9 OALIA-(N24 RS V81)+STRUT	.000	.000	-11.700	SREF -6053 SQ.FT.
(1ER011)	ARC 66-709 OAS9 OALIA-(N24 RS V81)+STRUT	10.000	.000	-11.700	LREF -5935 FT.
(1ER016)	ARC 66-709 OAS9 OALIA-(RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(1ER018)	ARC 66-709 OAS9 OALIA-(RS V81)+STRUT	10.000	.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

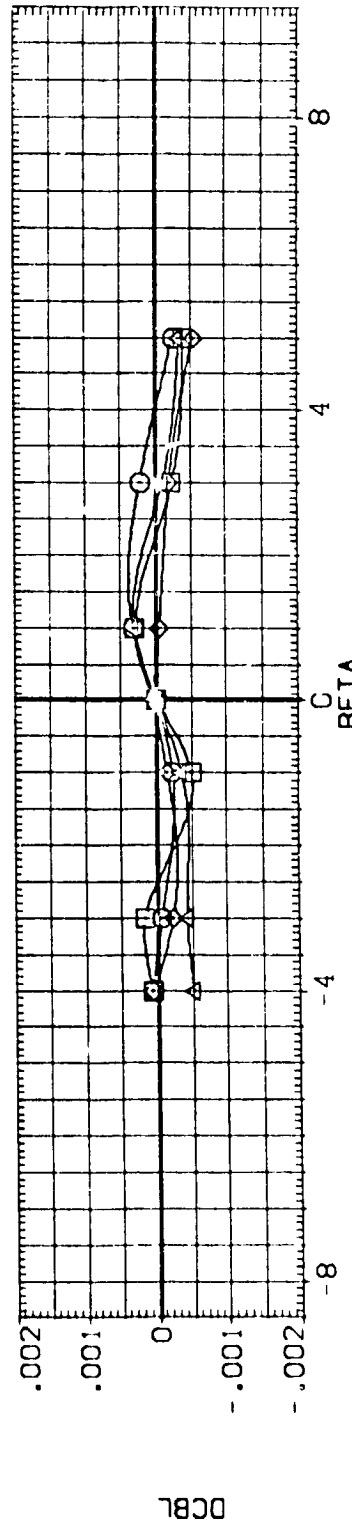
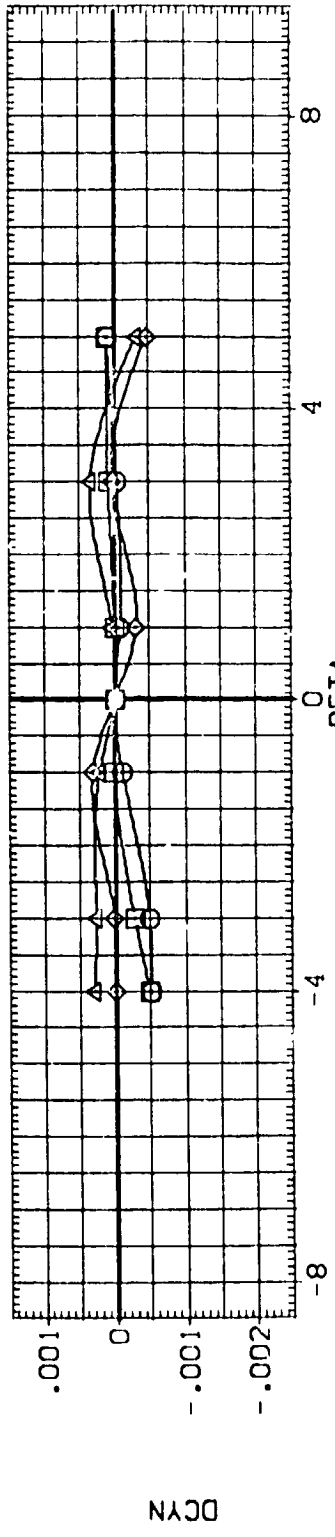
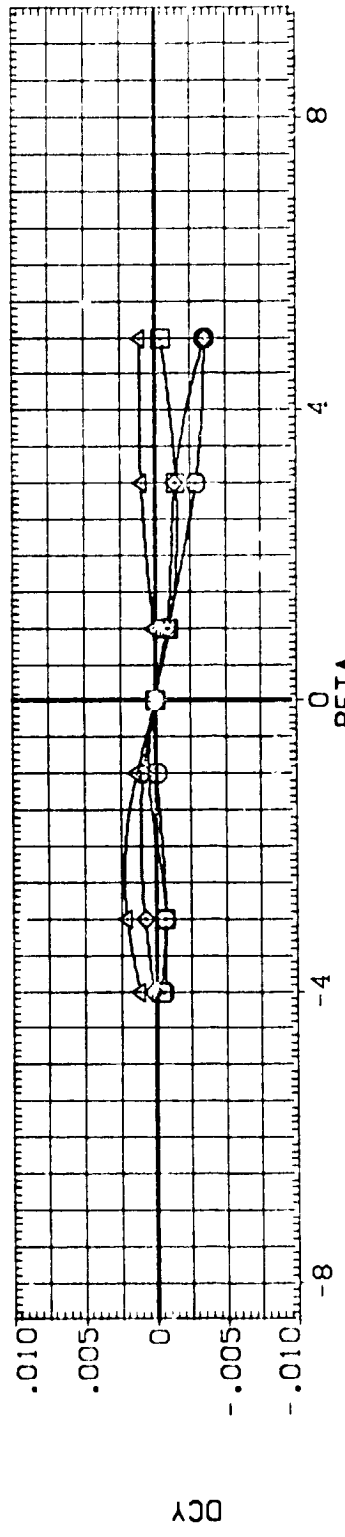


FIG. 12 YAW DATA TARES
 (A)MAC" = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (11R010) DATA NOT AVAILABLE
 (11R011) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT
 (11R016) ARC 66-709 0A59 0A11A-(RS V8)+STRUT
 (11R018) ARC 66-709 0A59 0A11A-(RS V8)+STRUT

ALPHA ELEVON BDFLAP
 .000 .000 .000
 10.000 .000 .000
 10.000 .000 .000

REFERENCE INFORMATION
 SREF .6053 50 FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

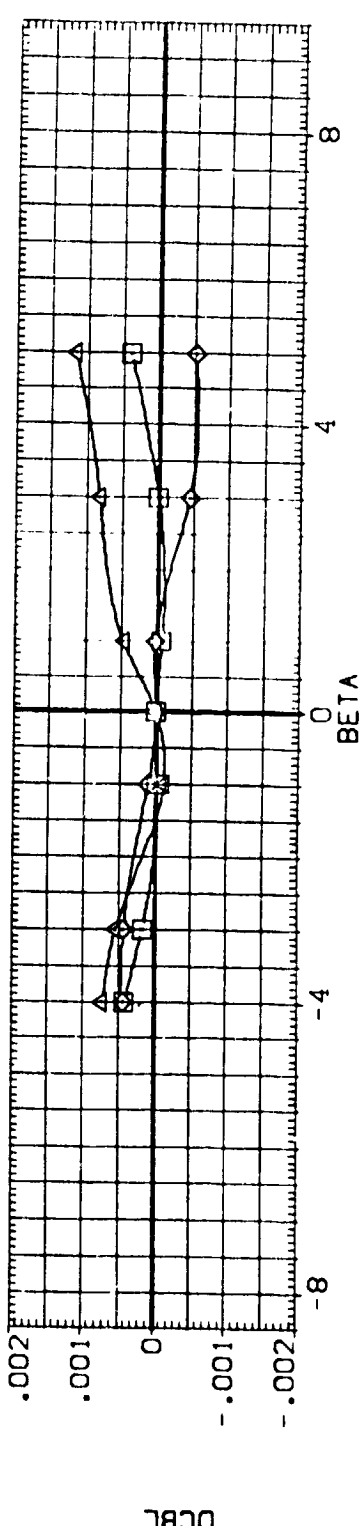
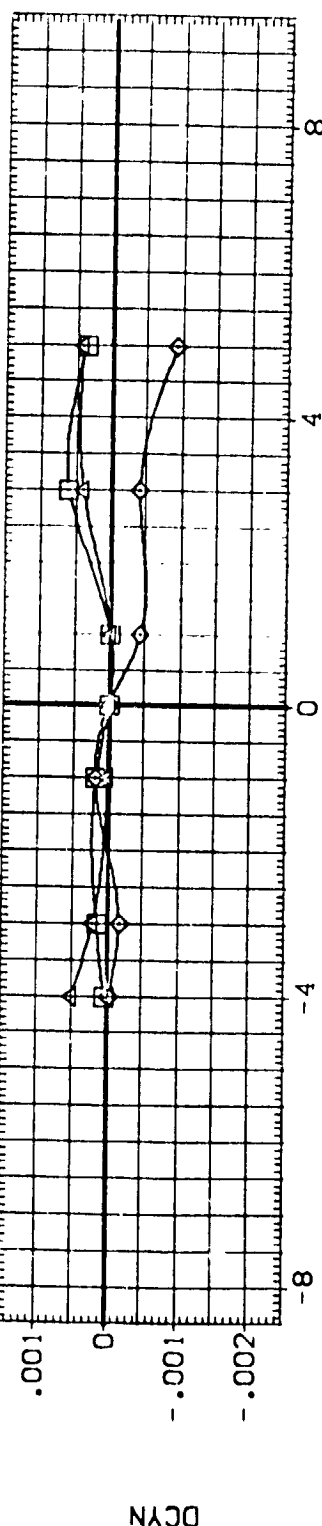
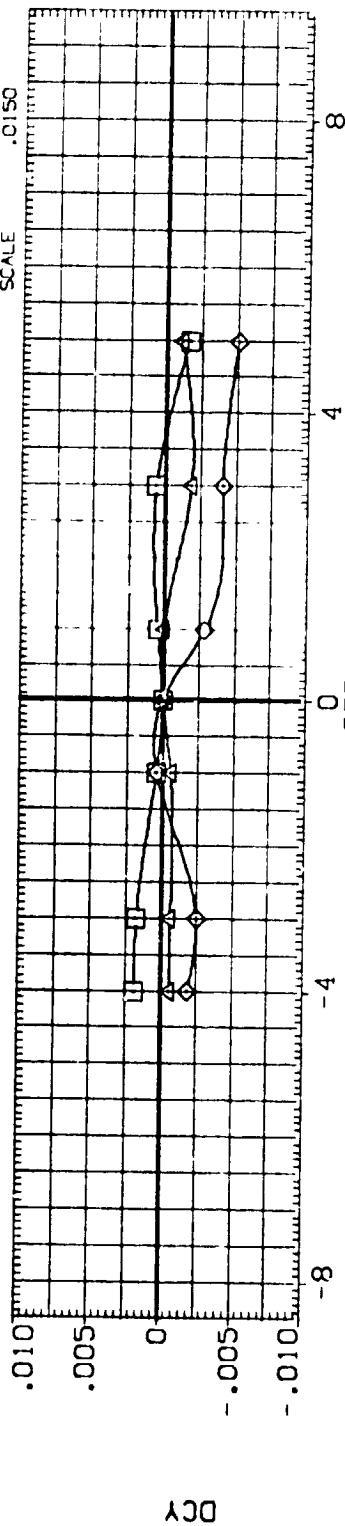


FIG. 12 YAW DATA TARES

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	BOFLAP	REFERENCE INFORMATION
(IERO10)	ARC 66-709 QAS9 CA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(IERO11)	ARC 66-709 QAS9 CA11A-(N24 RS V8)+STRUT	10.000	.000	-11.700	LREF .5935 FT.
(IERO16)	ARC 66-709 QAS9 CA11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(IERO18)	ARC 66-709 QAS9 CA11A-(RS V8)+STRUT	10.000	.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

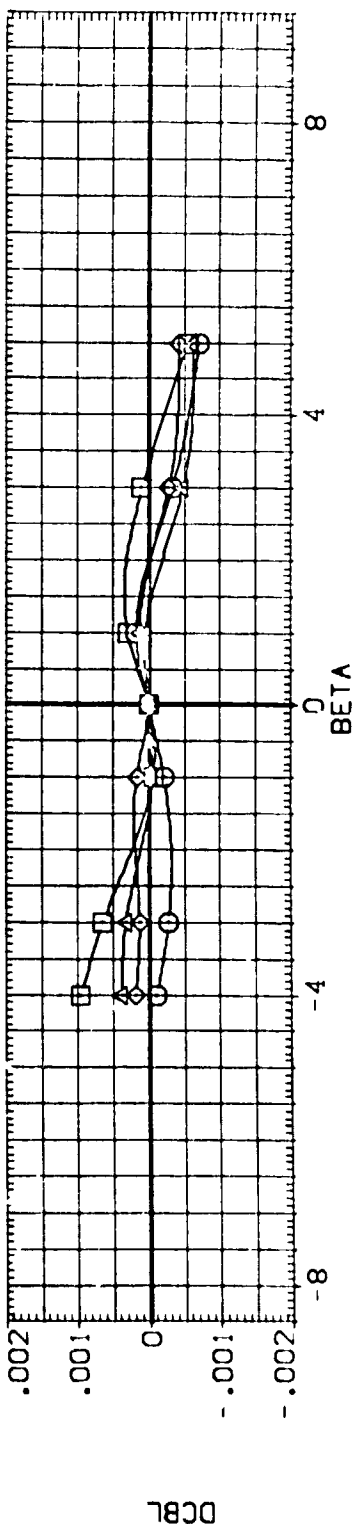
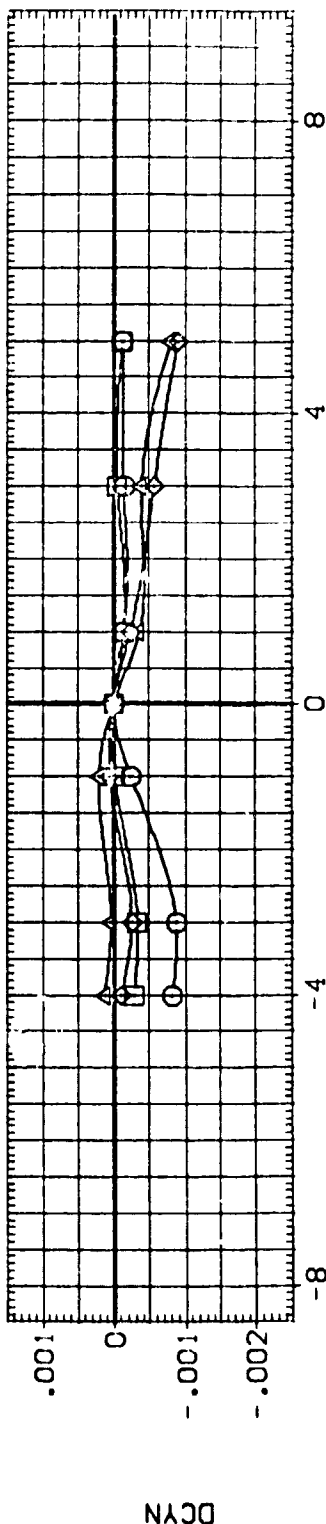
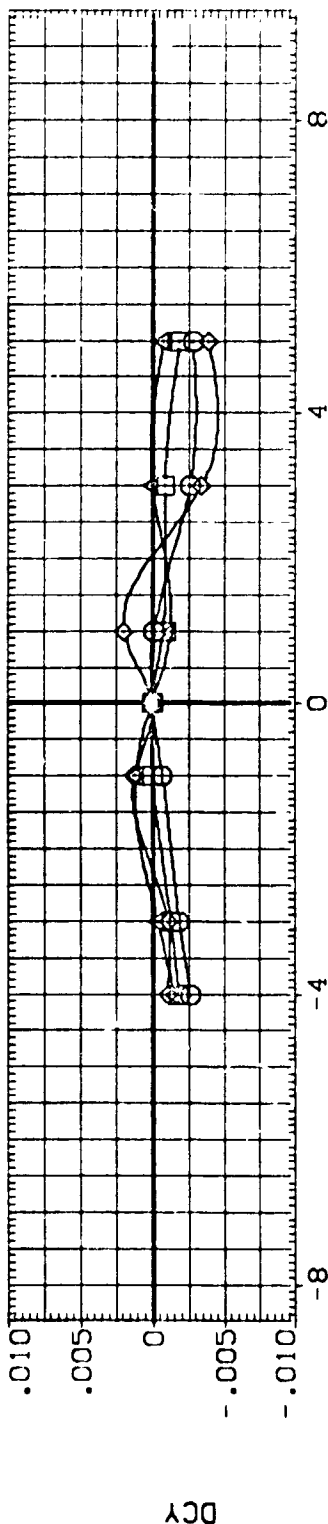


FIG. 12 YAW DATA TARES

(C)MAC = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (1ER010) ARC 66-709 DAS9 DA11A-(N24 RS V8)+STRUT
 (1ER011) ARC 66-709 DAS9 DA11A-(N24 RS V8)+STRUT
 (1ER016) ARC 66-709 DAS9 DA11A-(RS V8)+STRUT
 (1ER018) ARC 66-709 DAS9 DA11A-(RS V8)+STRUT

ALPHA ELEVON BOFLAP
 .000 .000 -11.700
 10.000 .000 -11.700
 .000 .000 -11.700
 10.000 .000 -11.700

REFERENCE INFORMATION
 SREF .6053 SC.FT.
 LREF .5935 FT.
 BREF 1.1710 IN.
 XREF 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

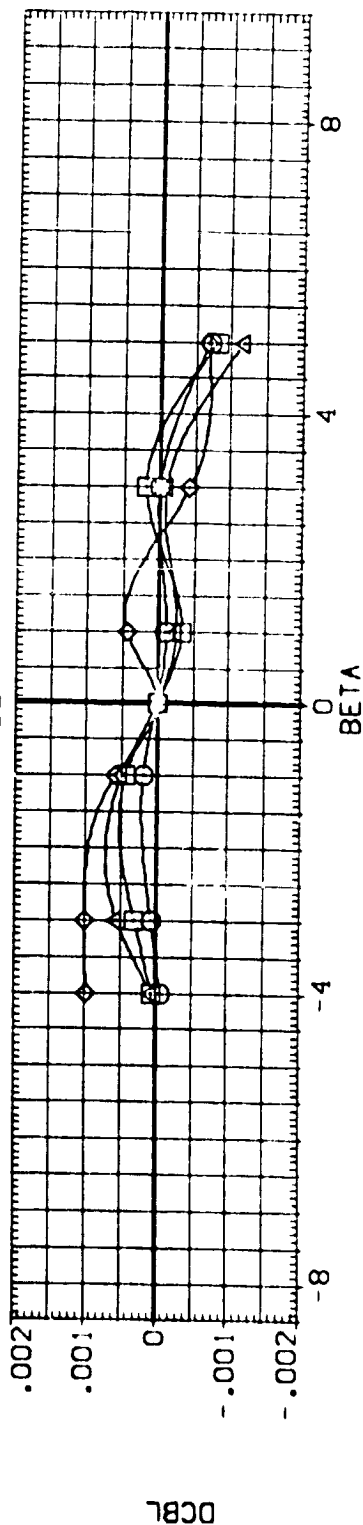
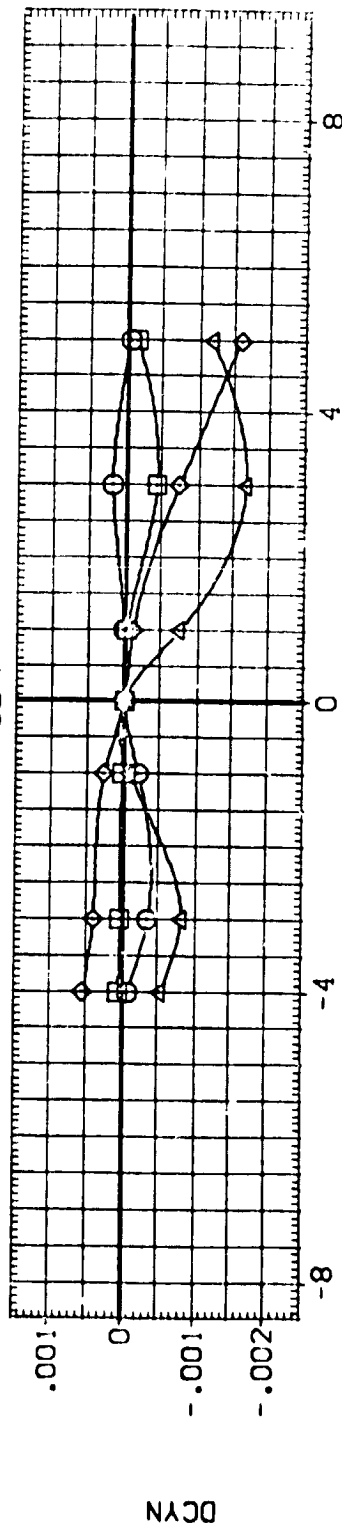
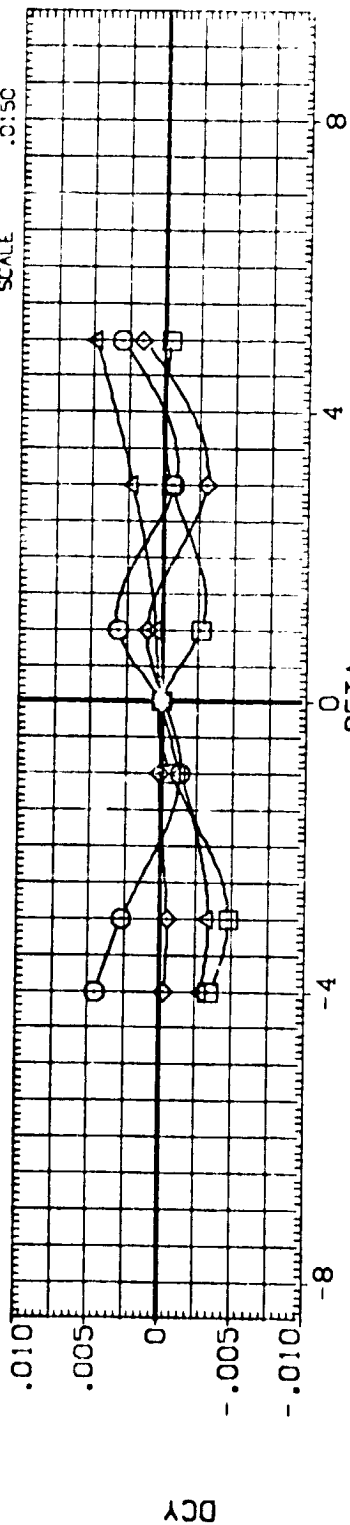


FIG. 12 YAW DATA TARES

(D)MAC: .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(1) RC10 ARC 66-709 D459 3A11A-(N24 RS V8)*STRUT

(2) RC11 ARC 66-709 D459 3A11A-(N24 RS V8)*STRUT

(3) RC16 ARC 66-709 D459 3A11A-(RS V8)*STRUT

(4) RC18 ARC 66-709 D459 3A11A-(RS V8)*STRUT

ALPHA ELEVON BOFLAP

0.000 0.000 -11.700

10.000 0.000 -11.700

0.000 0.000 -11.700

10.000 0.000 -11.700

REFERENCE INFORMATION

SREF 6053 SQ.FT.

LREF .5935 FT.

BREF 1.710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

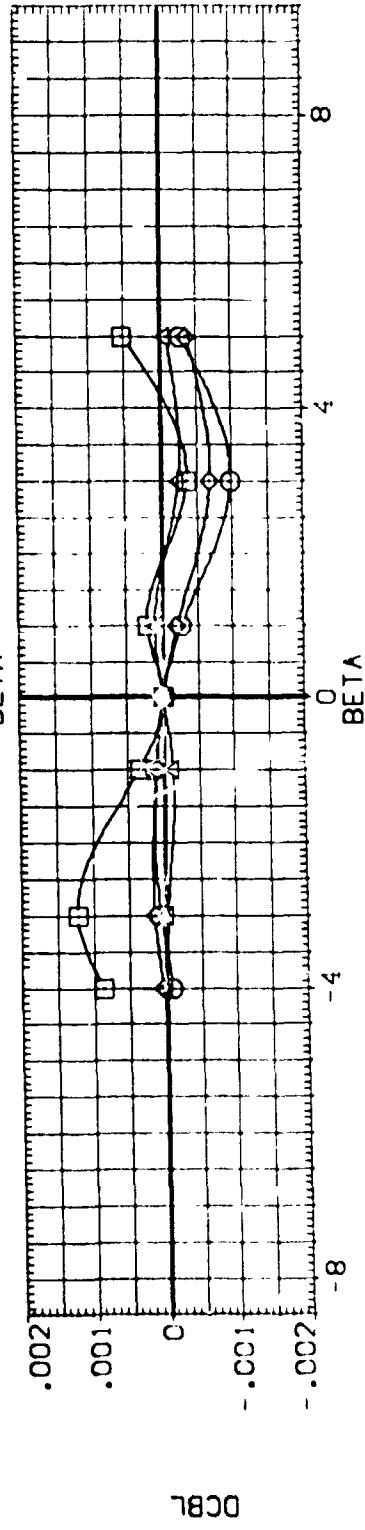
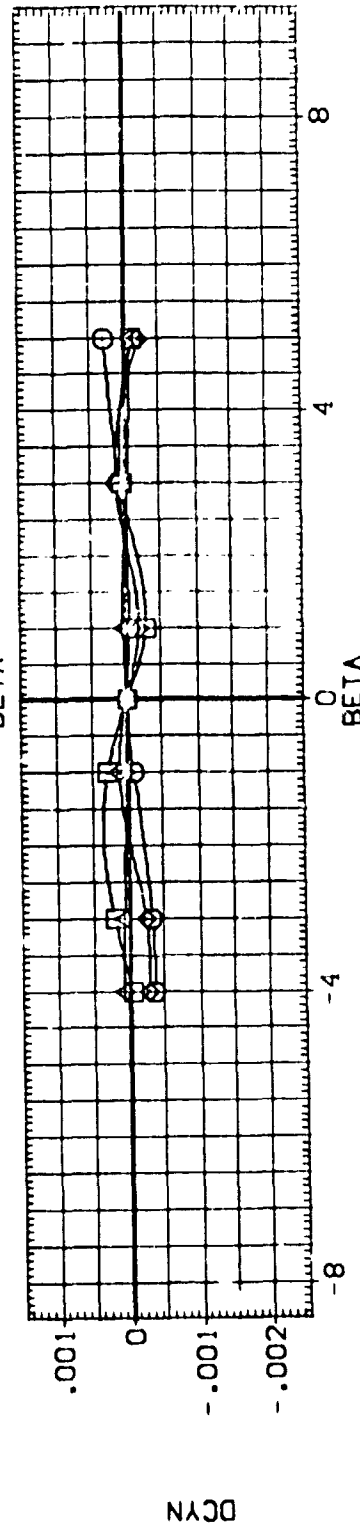
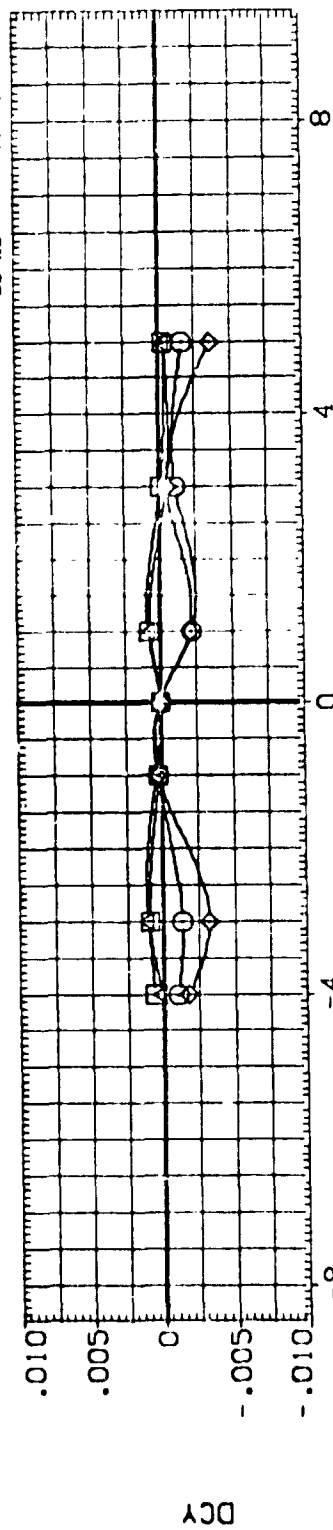


FIG. 12 YAW DATA TARES

(E)MAC = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	BOF LAP	REFERENCE INFORMATION
(11R010)	ARC 66-709 QAS9 DALLIA-(N24 RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(11R011)	ARC 66-709 QAS9 DALLIA-(N24 RS V8)+STRUT	10.000	.000	-11.700	LREF .5935 FT.
(11R016)	ARC 66-709 QAS9 DALLIA-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(11R018)	ARC 66-709 QAS9 DALLIA-(RS V8)+STRUT	10.000	.000	-11.700	VMOP 12.6255 IN.
					ZMOP .0010 IN.
					SCALE .0150

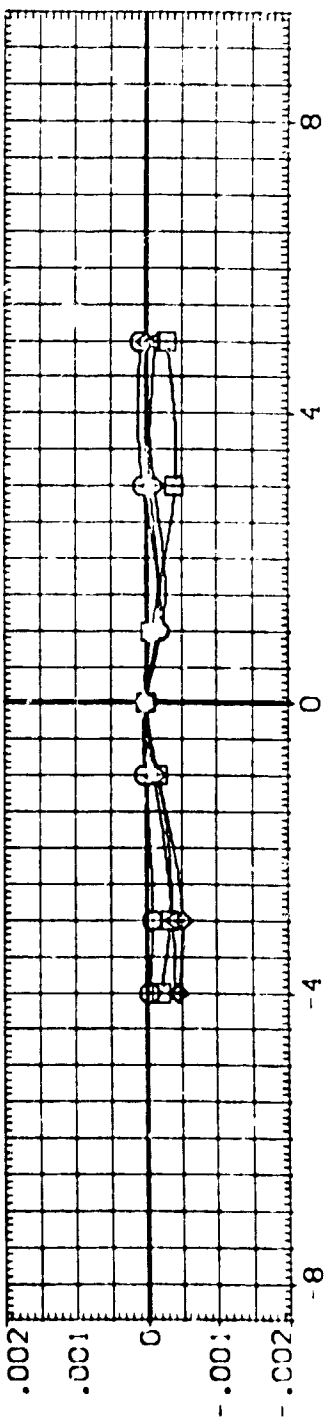
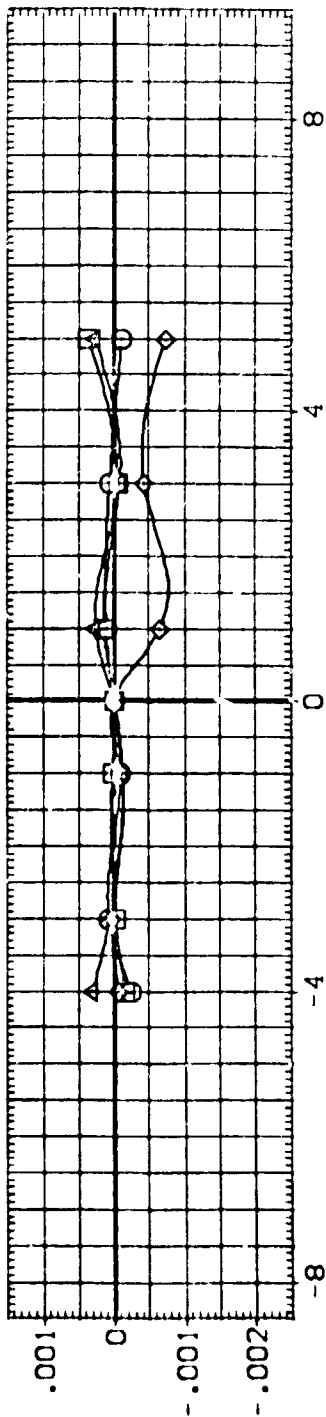
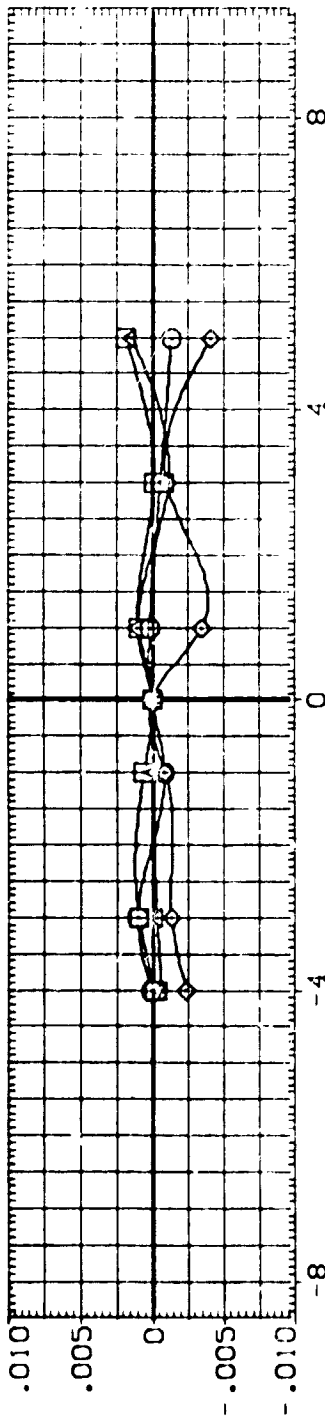


FIG. 12 YAW DATA TARES
(F)MAC 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CERO70)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(CERO19)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 IN.
(CERO70)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMPP 12.6755 IN.
					YMPP .0000 IN.
					ZMPP -.3750 IN.
					SCALE .0150

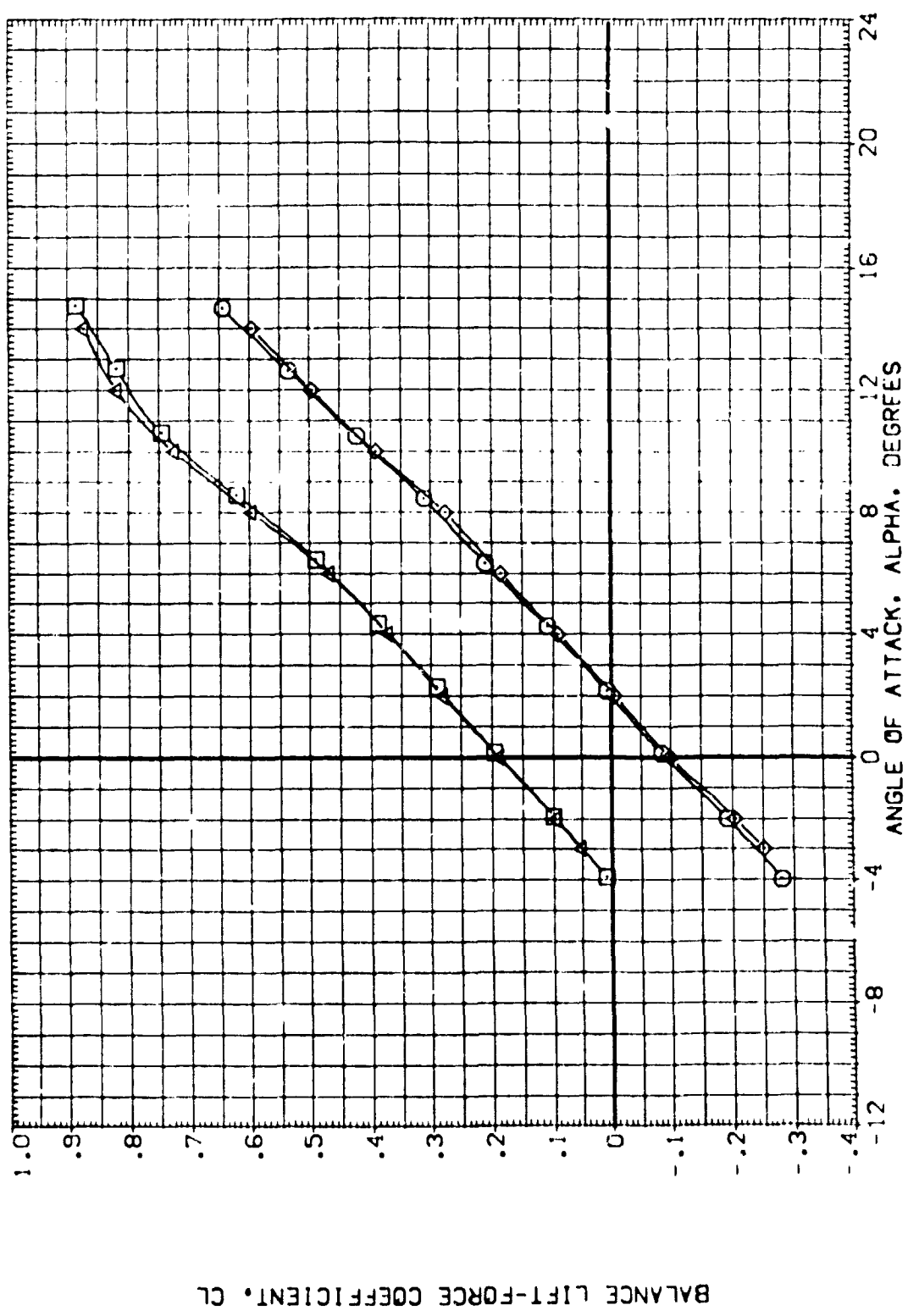


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CER019) ARC 66-709 0A59 0A11A-(N24)
 (CER020) ARC 66-709 0A59 0A11A-(N24)
 (CER019) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
 (CER020) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDF LAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700

REFERENCE INFORMATION
 SREF .6753 SQ.FT.
 REF .5935 FT.
 BRK 12.6 IN.
 XMRD .0000
 YMRD .0000
 ZMRD .3750
 SCALE 0.50

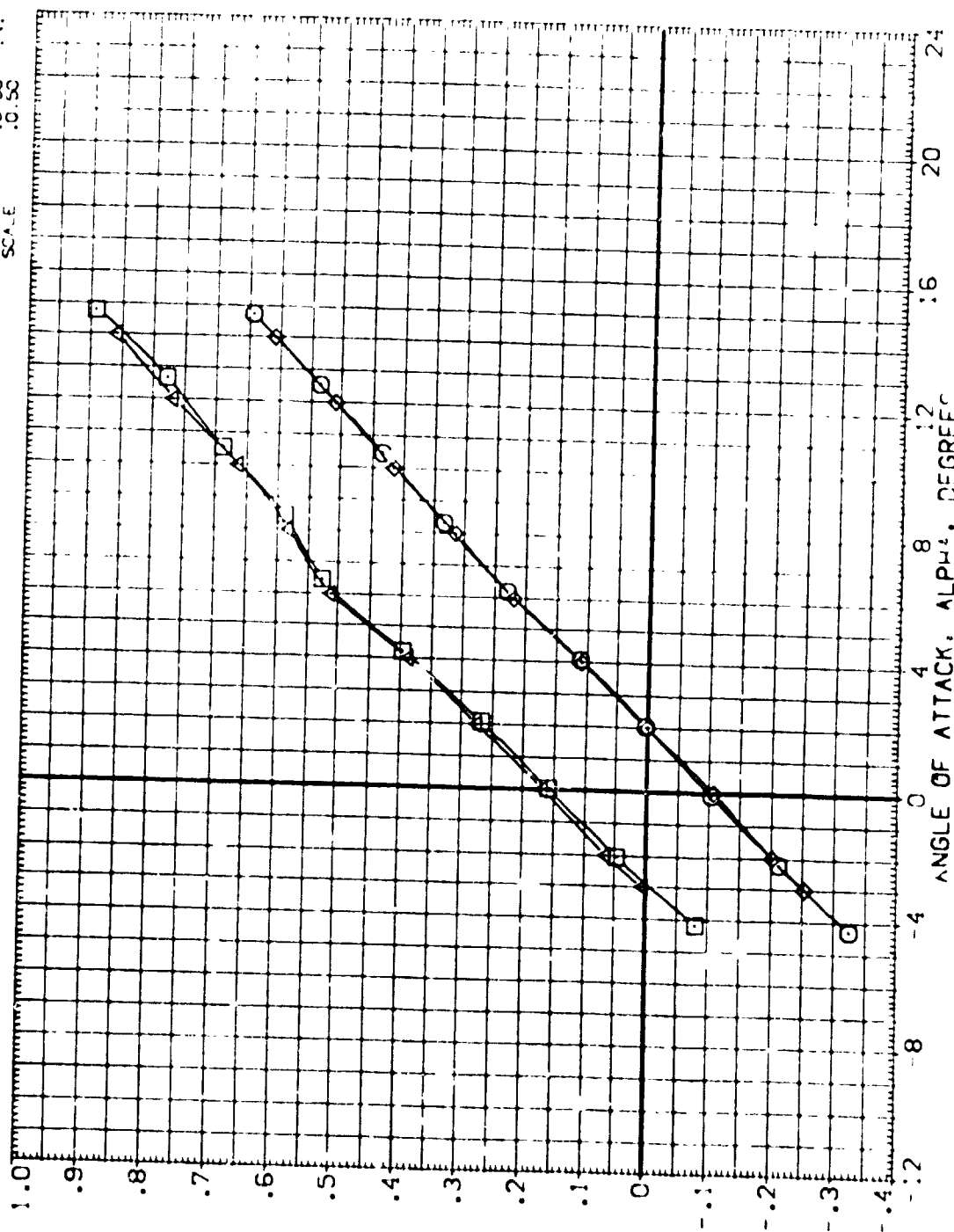


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)M.C. = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER019) ARC 66-709 OAS9 0A11A-(N24)

(CER020) DATA NOT AVAILABLE

(CER019) ARC 66-709 OAS9 0A11A-N24 (ADJUSTED FOR TARES)

(CER020) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50. FT.

LRREF .5935 FT.

BRREF 1.1710 FT.

XRMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

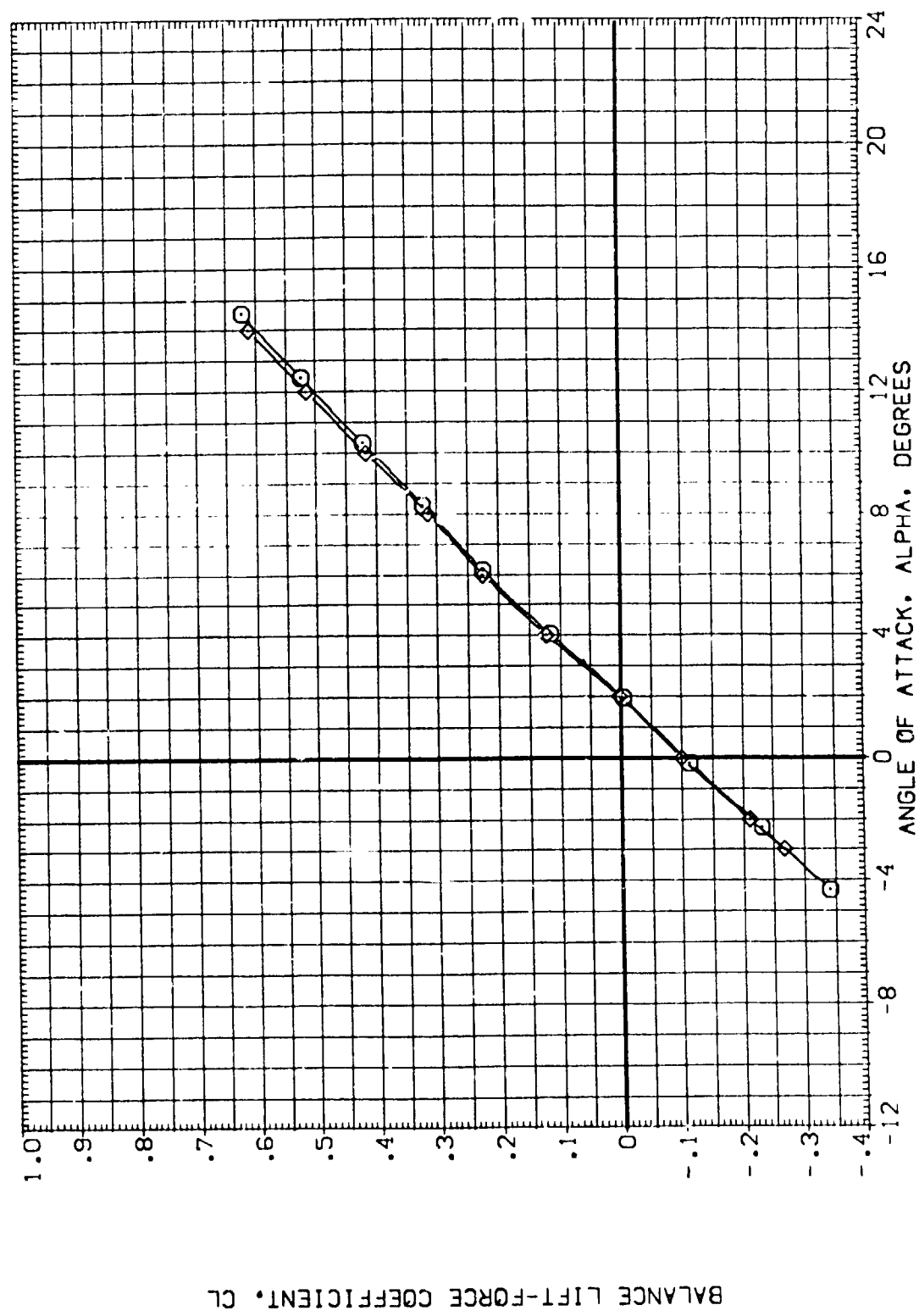


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MAC = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CERO19) ARC 66-709 DA59 OA11A-(N24)
 (CERO20) ARC 66-709 DA59 OA11A-(N24)
 (CERO19) ARC 66-709 DA59 OA11A-N24 (ADJUSTED FOR TARES)
 (CERO20) ARC 66-709 DA59 OA11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOE LAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LBREF .5935 FT.
 BRFP 1.710 FT.
 XMRP 12.6755 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

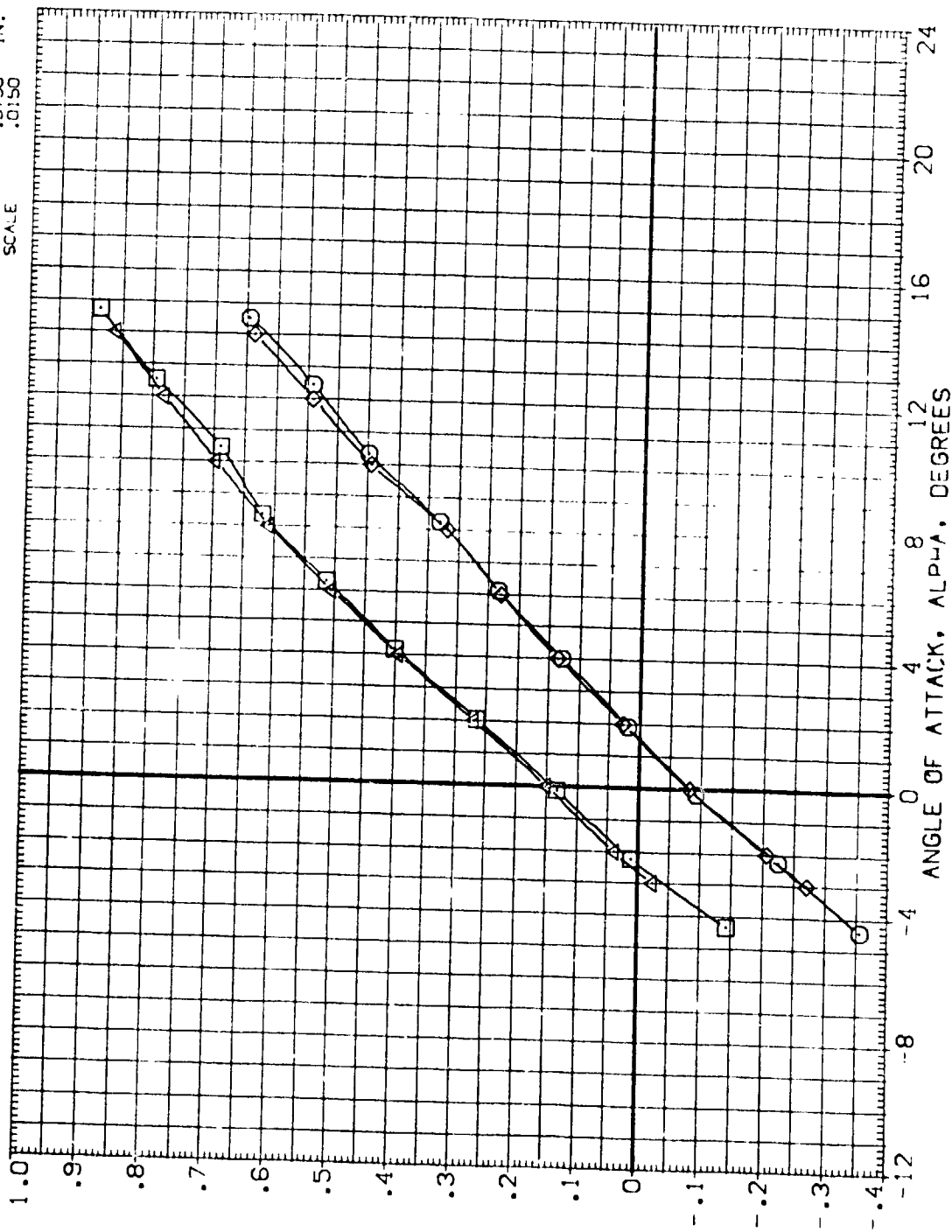


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MAC90

DATA SET SYMBOL: \bigcirc \otimes

CONFIGURATION DESCRIPTION:
 ARC 66-709 0A59 0A11A-(N24)
 DATA NOT AVAILABLE
 ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
 DATA NOT AVAILABLE

BETA: .000
 .000
 .000
 .000

ELEVON: .000
 15.000
 .000
 15.000

BOFLAP: -11.700
 -11.700
 -11.700
 -11.700

REFERENCE INFORMATION:
 SREF: .6053 SQ.FT.
 LREF: .5935 FT.
 BREF: 1.1710 FT.
 YMRP: 12.6235 IN.
 ZMRP: .0000 IN.
 SCALE: -.3750 IN.
 .0150

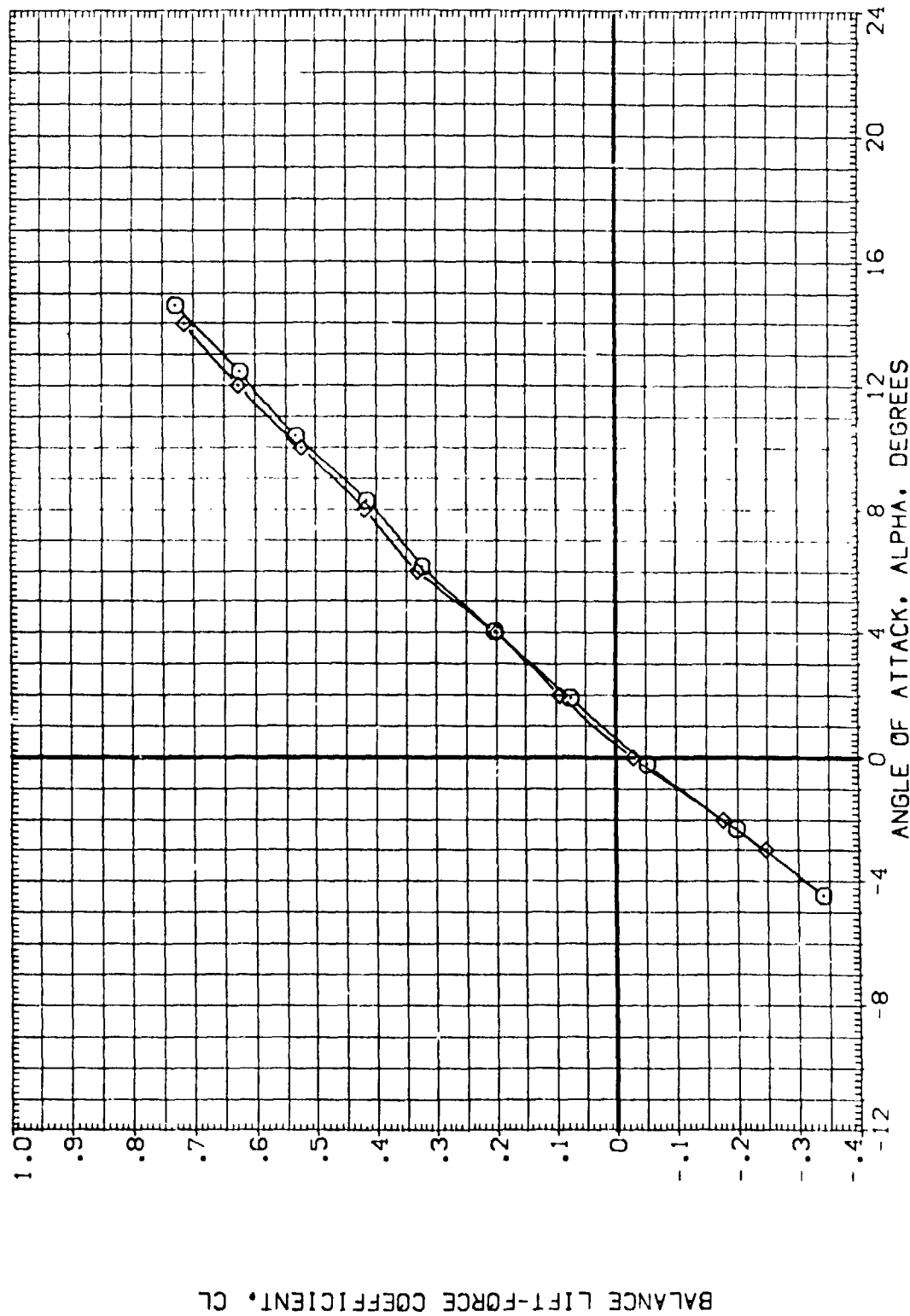


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MAC = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CERO19) ARC 66-709 DAS9 0111A-(N24)

(CERO20) ARC 66-709 DAS9 0111A-(N24)

(IERO19) ARC 66-709 DAS9 0111A-N24 (ADJUSTED FOR TARES)

(IERO20) ARC 66-709 DAS9 0111A-N24 (ADJUSTED FOR TARES)

BETA

ELEVON

BOFLAP

.000 -11.700

.000 -11.700

.000 -11.700

.000 -11.700

.000 -11.700

.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5936 FT.

BREF 1.1711C IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

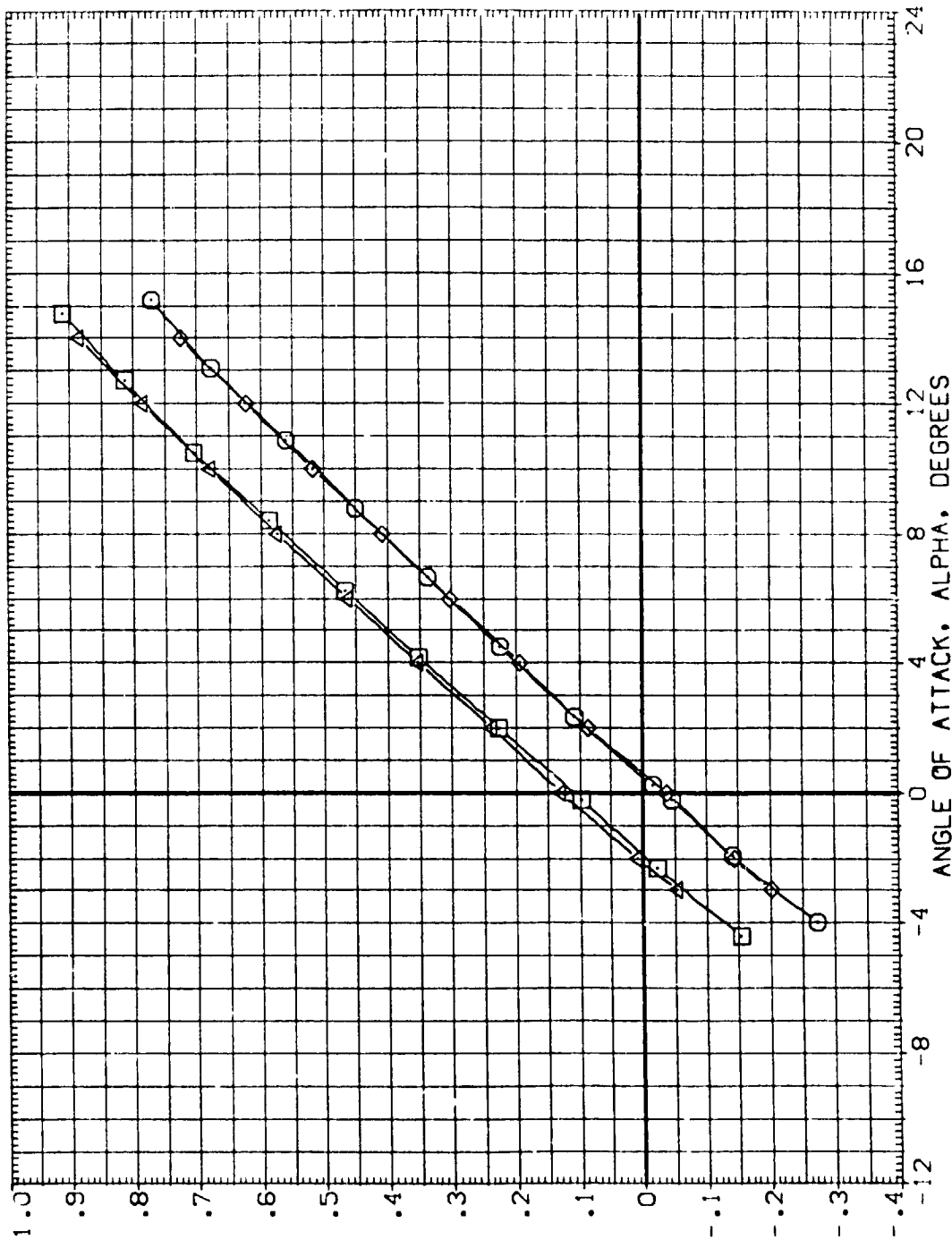


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MAC11 = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 QAS9 Q11A-(N24)	.000	.000	-11.700	SREF .6053 50. FT.
(CER020)	ARC 66-709 QAS9 Q11A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(IER019)	ARC 66-709 QAS9 Q11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT. IN.
(IER020)	ARC 66-709 QAS9 Q11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

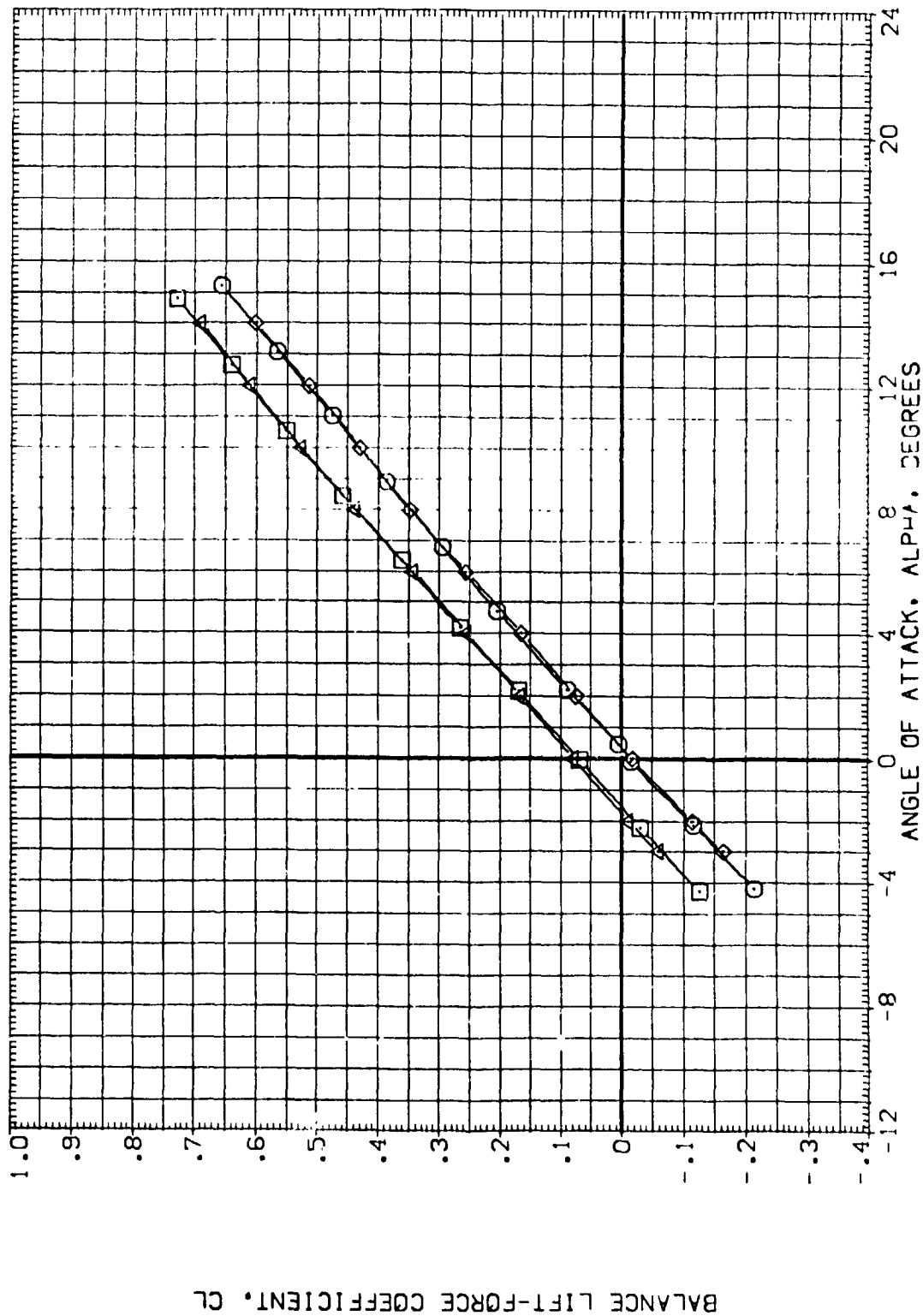
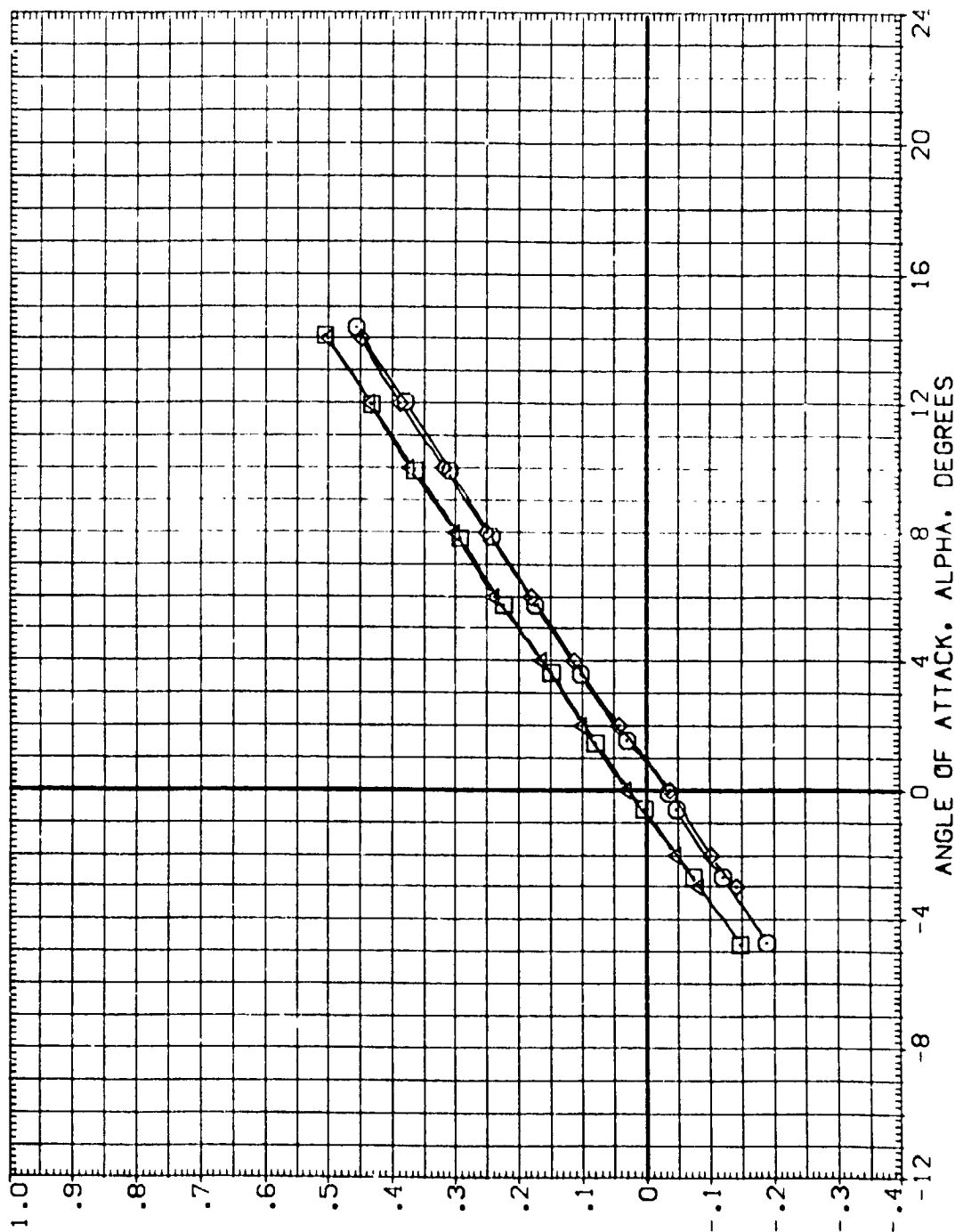


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 SO.FT.
(CERO20)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(LERO19)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BOLE 1.1710 IN.
(LERO20)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150



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FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 2.00

REFERENCE INFORMATION

SREF	.6053	SO.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6755	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	BOLAP
.000	-11.700
.000	-11.700
.000	-11.700
.000	-11.700

DATA SET SYMBOL

CONFIGURATION	DESCRIPTION
ARC 66-709 0A59 0A11A-(N24)	
ARC 66-709 0A59 0A11A-(N24)	
ARC 66-709 0A59 0A11A-(N24)	(ADJUSTED FOR TARES)
ARC 66-709 0A59 0A11A-(N24)	(ADJUSTED FOR TARES)

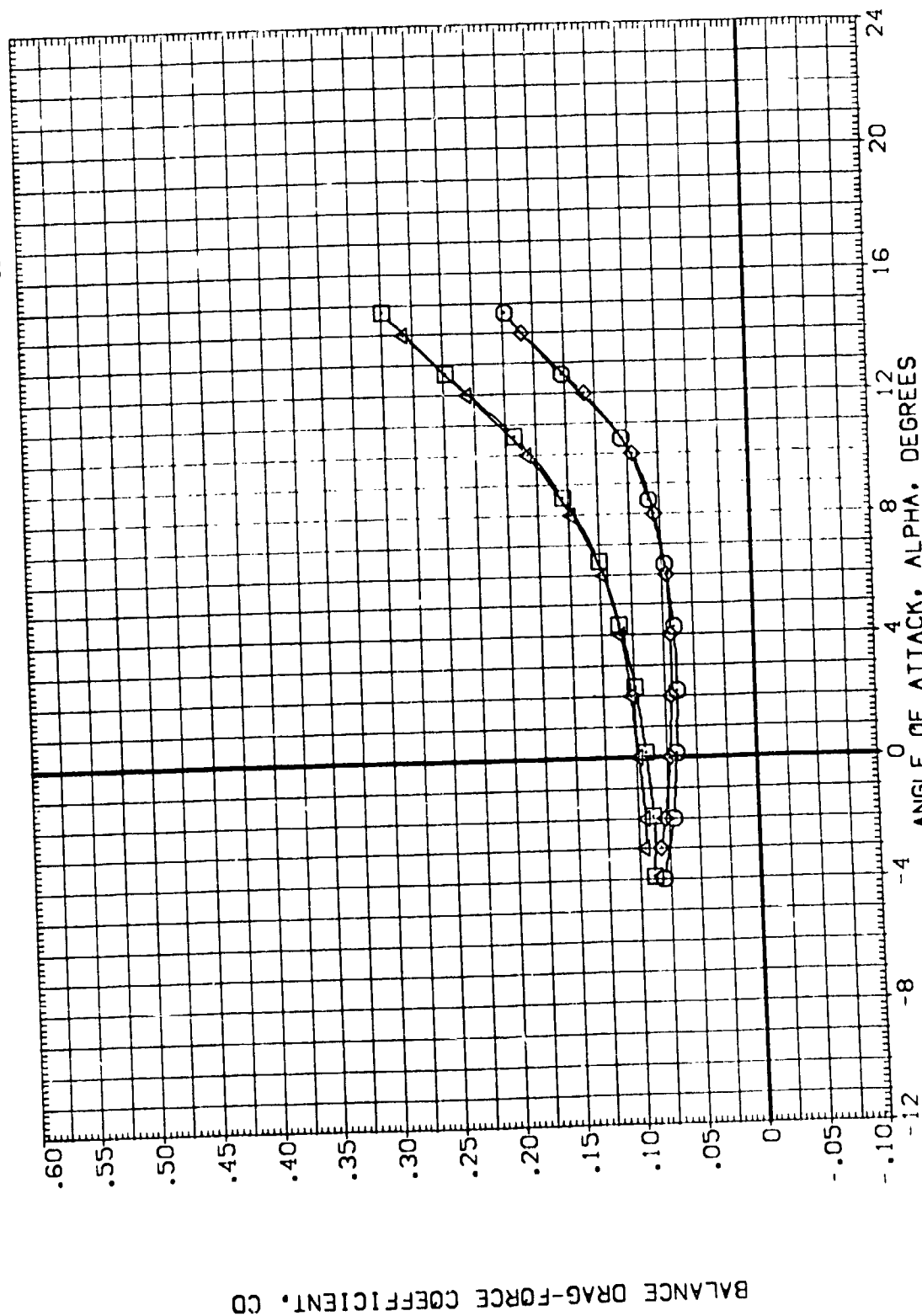


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 OAS9 O111A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(CER020)	ARC 66-709 OAS9 O111A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(IER019)	ARC 66-709 OAS9 O111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.171C
(IER020)	ARC 66-709 OAS9 O111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE 10:50

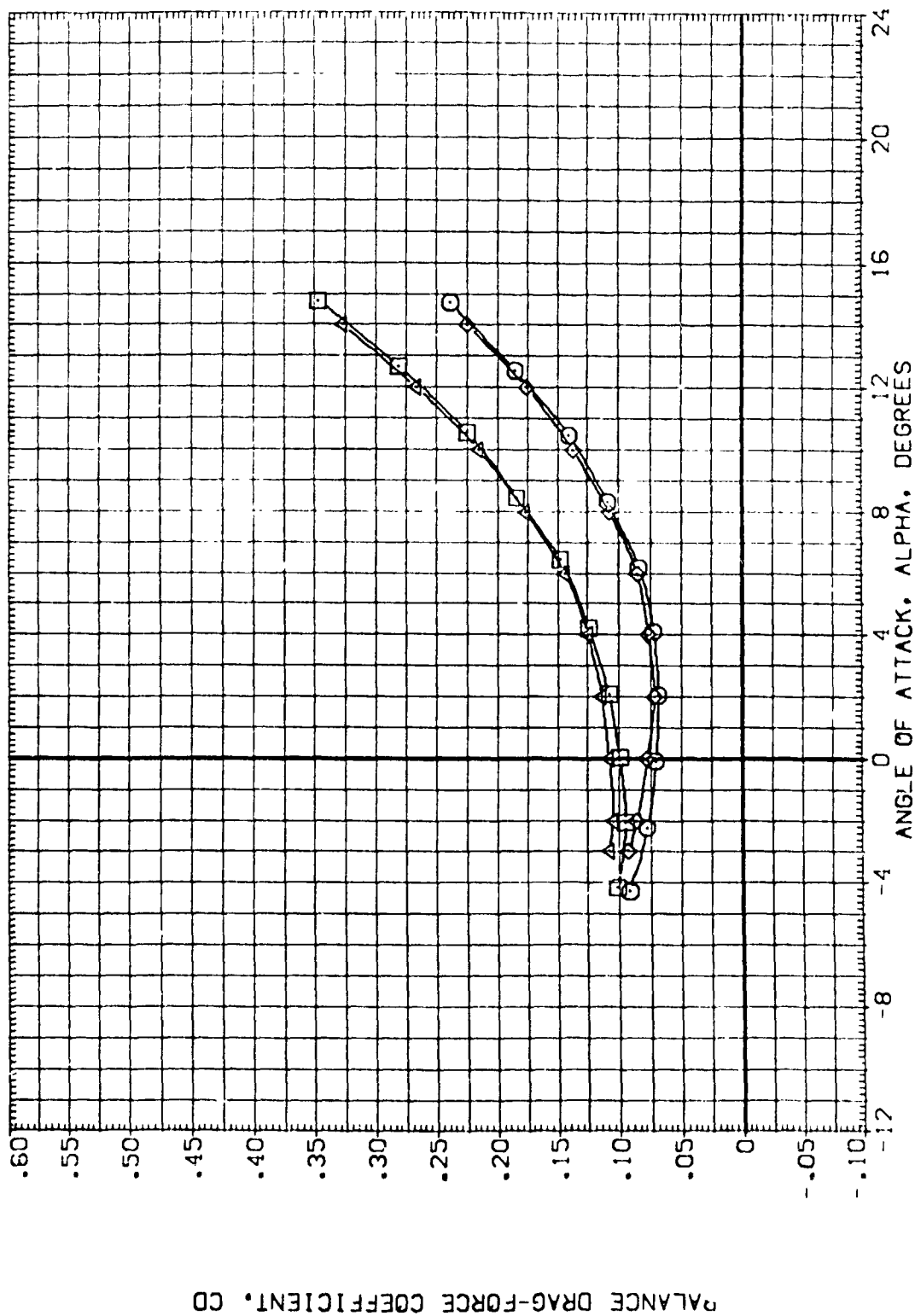


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 OAS9 OALIA-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER020)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(LER019)	ARC 66-709 OAS9 OALIA-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(LER020)	DATA NOT AVAILABLE	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

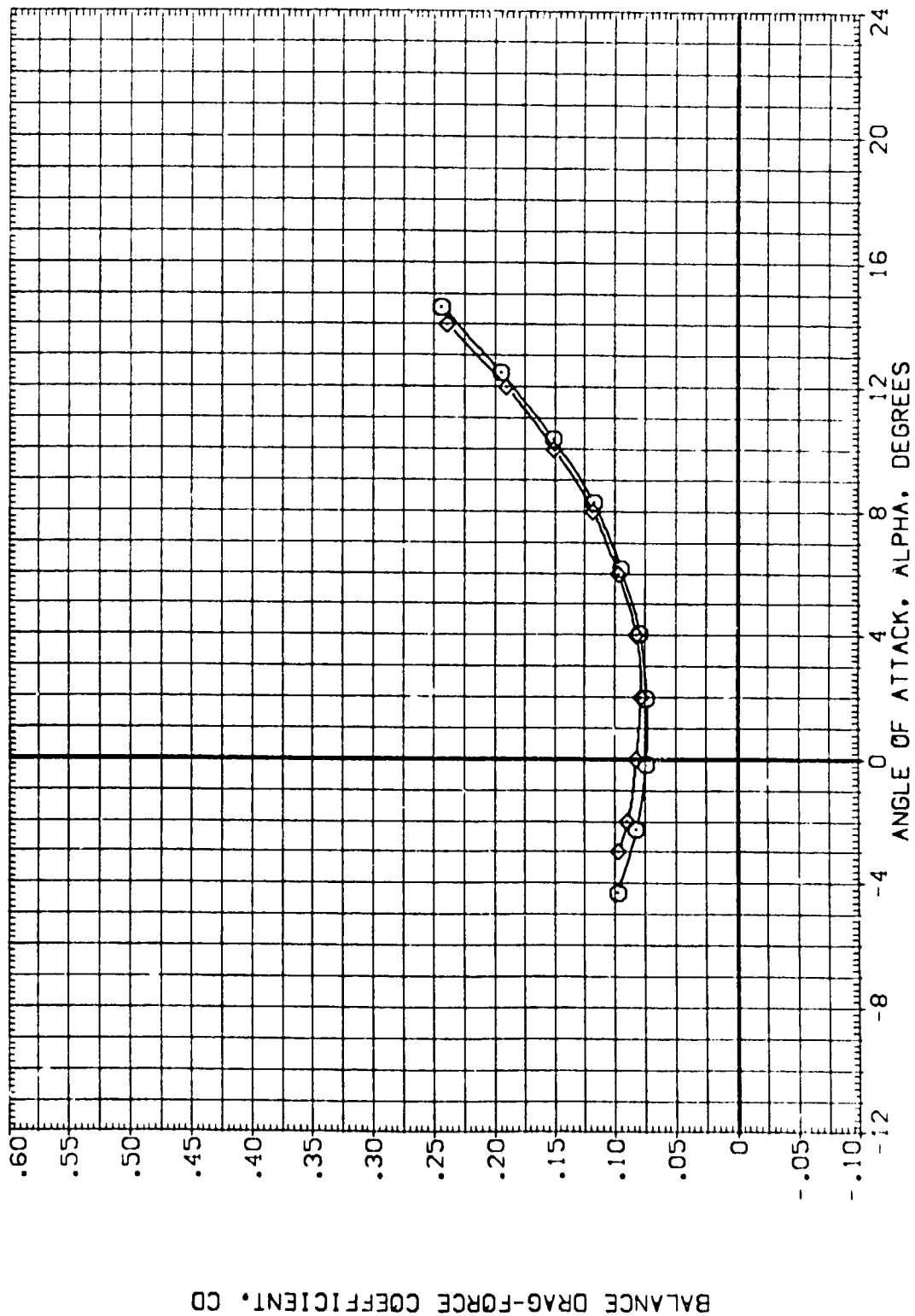


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MAC - .85

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA		ELEVON		BOFLAP		REFERENCE INFORMATION	
(CERO19)	□	ARC 66-709	QAS9	0111A-(N24)	.000	.000	-11.700	SREF	.6053	SO.FT.	
(CERO20)	⊗	ARC 66-709	QAS9	0111A-(N24)	.000	.000	-11.700	LREF	.5935	FT.	
(LERO19)		ARC 66-709	QAS9	0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF	1.1710	FT.	
(LERO20)		ARC 66-709	QAS9	0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP	12.6235	IN.	
								ZMRP	.0000	IN.	
								SCALE	-.3750	IN.	
										.0150	

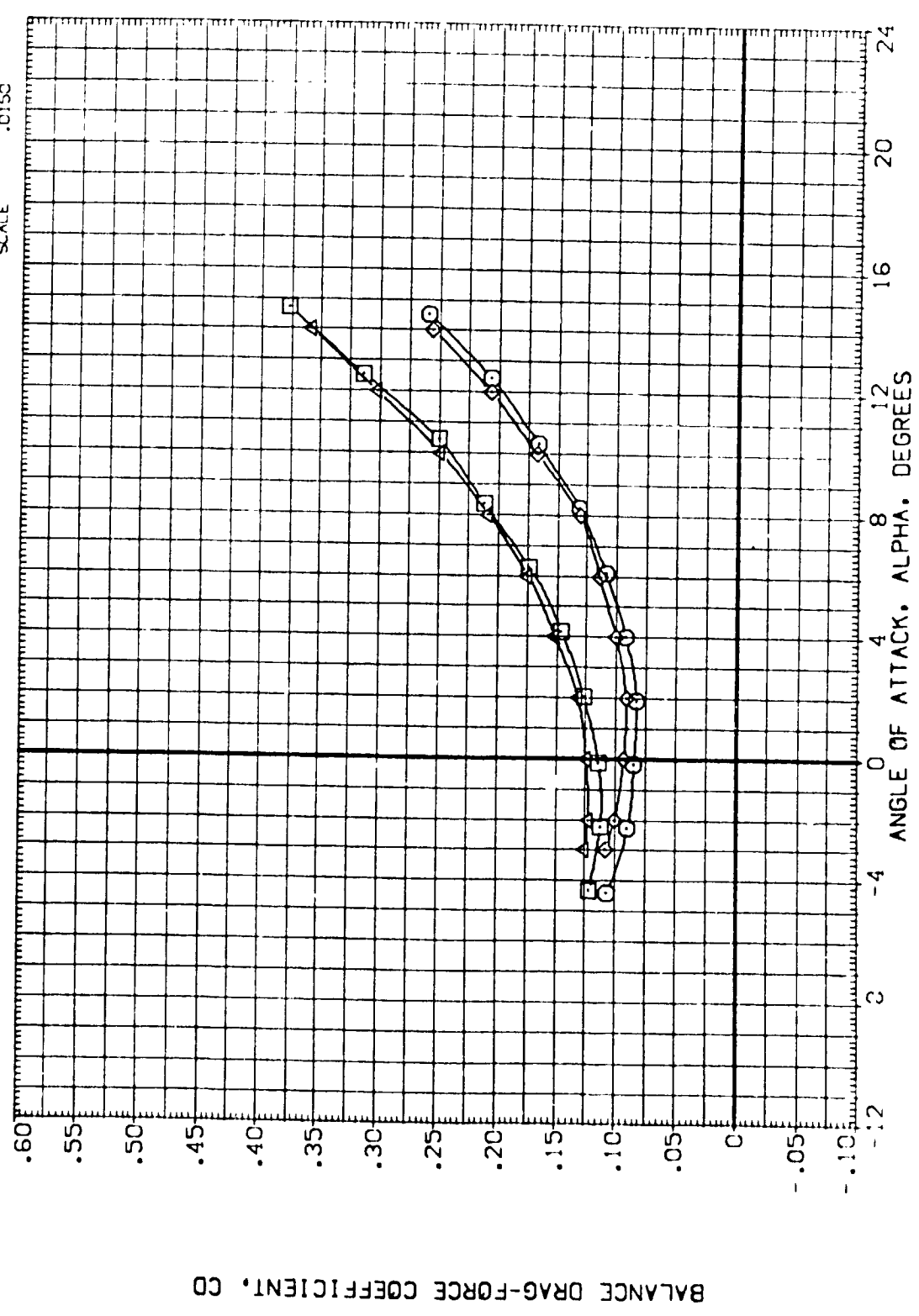


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES
COMAC .90

DATA SET SYMBO.	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 65-709 DASS Q11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CERO20)	DATA NOT AVAILABLE	.000	.000	-11.700	LREF .5935 FT.
(CERO19)	ARC 65-709 DASS Q11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 IN.
(CERO20)	DATA NOT AVAILABLE	.000	.000	-11.700	YMRP 12.6255 IN.
					ZMRP -.3750 IN.
					SCALE .0150

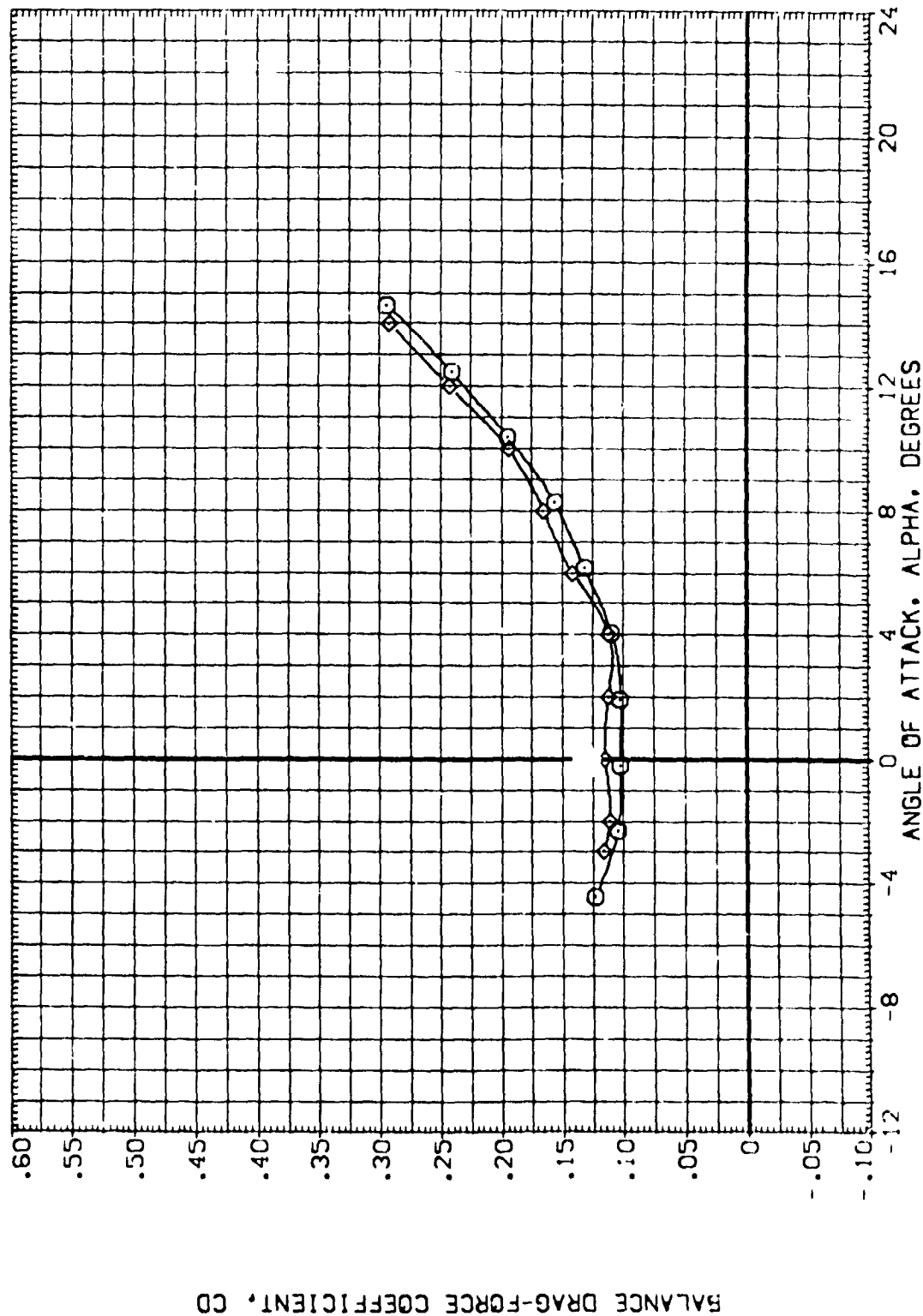


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(E)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CERO19) ARC 66-709 DA59 DA11A-(N24)
 (CERO20) ARC 66-709 DA59 DA11A-(N24)
 (TERO19) ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)
 (TERO20) ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 F.
 BREF 1.1710 F.
 XMRP 12.6258 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

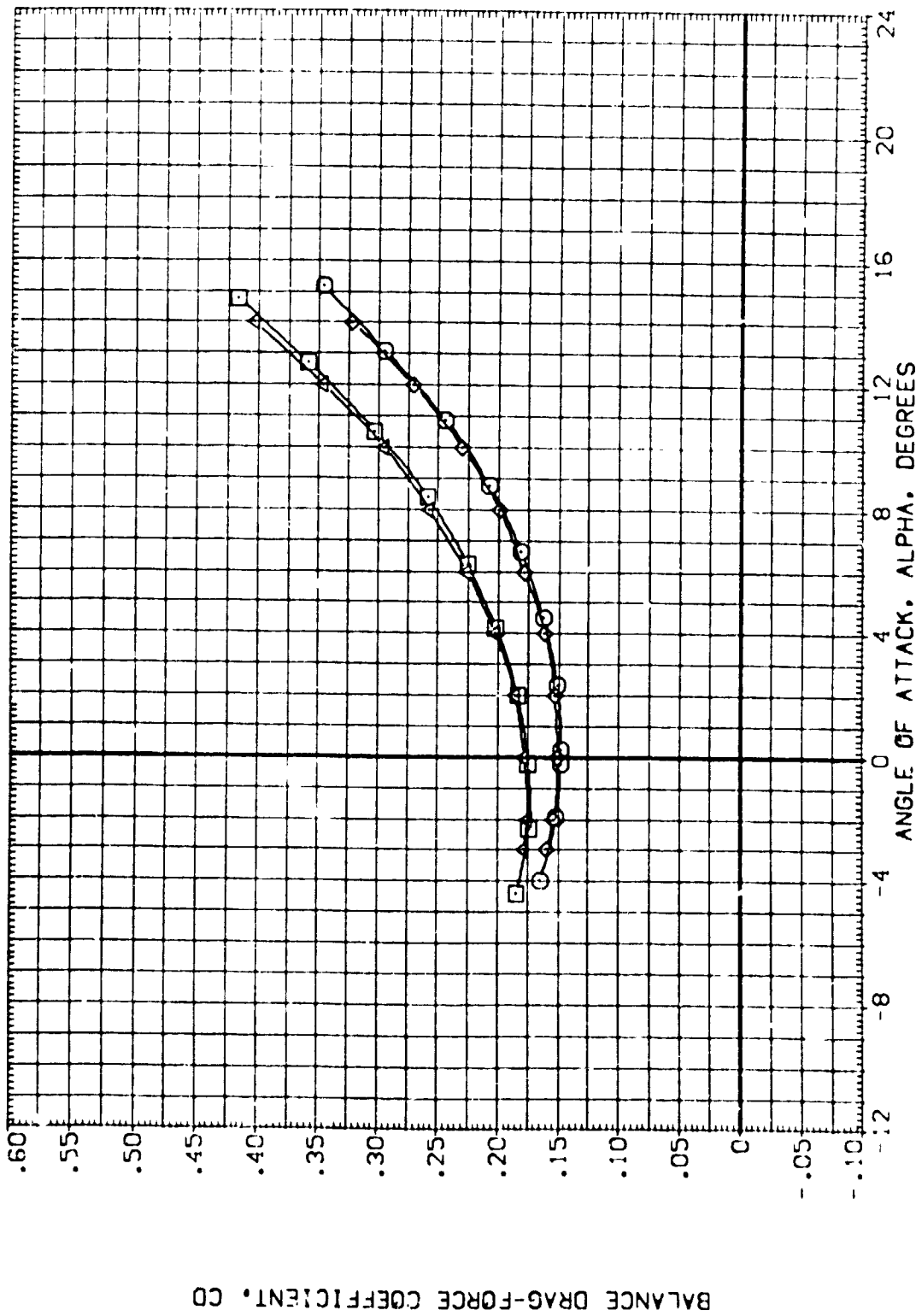


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(F)MAC 1.20

REFERENCE INFORMATION

SREF	.6053	Q.F.
LREF	.5935	F.
BREF	1.1710	F.
XMRP	2.6255	IN.
YMRP	.0000	IN.
ZMRP	.3750	IN.
SCALE	.0150	

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CERO19)	ARC 66-709 DA59	Q111A-(N24)
(CERO20)	ARC 66-709 DA59	Q111A-(N24)
(CERO19)	ARC 66-709 DA59	Q111A-N24 (ADJUSTED FOR TARES)
(CERO20)	ARC 66-709 DA59	Q111A-N24 (ADJUSTED FOR TARES)

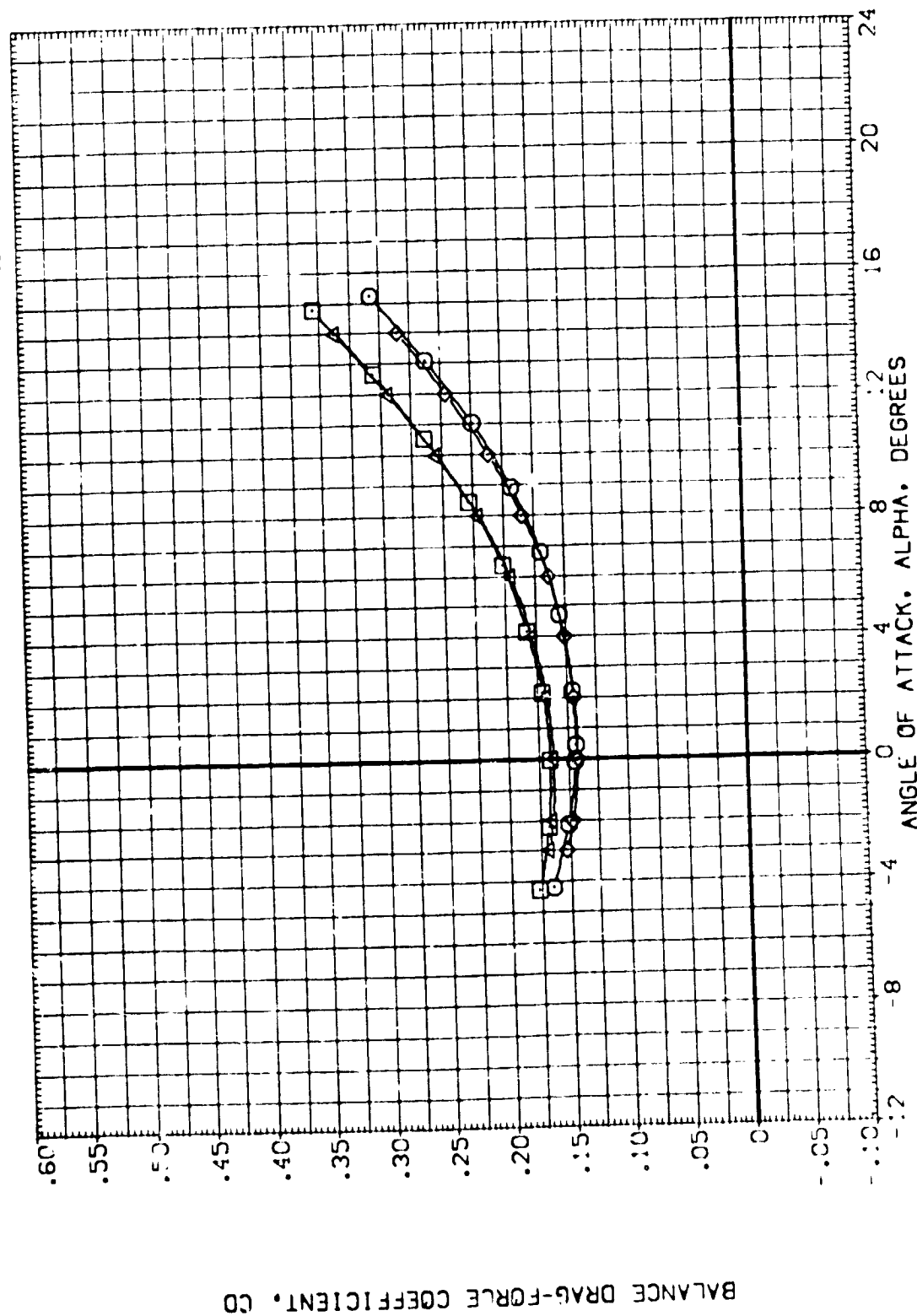


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BETA LAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 DASS G11A-N24	.000	.000	-1.700	SREF .6053
(CERO20)	ARC 66-709 DASS G11A-N24	.000	.000	-1.700	LREF .5936
(CERO19)	ARC 66-709 DASS G11A-N24 (ADJUSTED FOR TARES)	.000	.000	-1.700	BREF .5936
(CERO20)	ARC 66-709 DASS G11A-N24 (ADJUSTED FOR TARES)	.000	.000	-1.700	XREF .5936
					YREF .5936
					ZREF .5936
					SCALE .0150

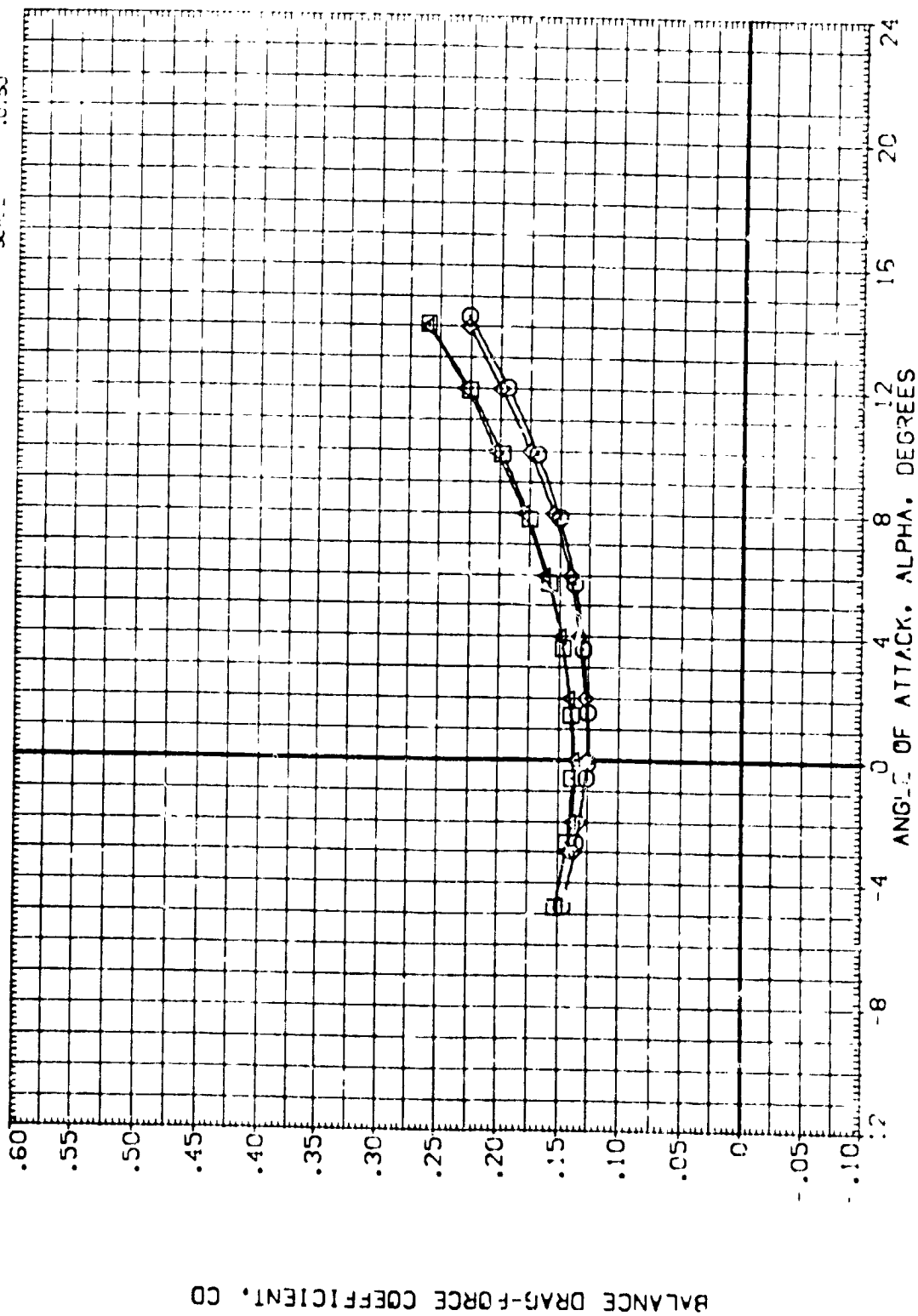


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 DASS DA11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CERO20)	ARC 66-709 DASS DA11A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(CERO19)	ARC 66-709 DASS DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(CERO20)	ARC 66-709 DASS DA11A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMREF 12.6755 IN.
					YMREF .0000 IN.
					ZMREF -.3750 IN.
					SCALE .0150

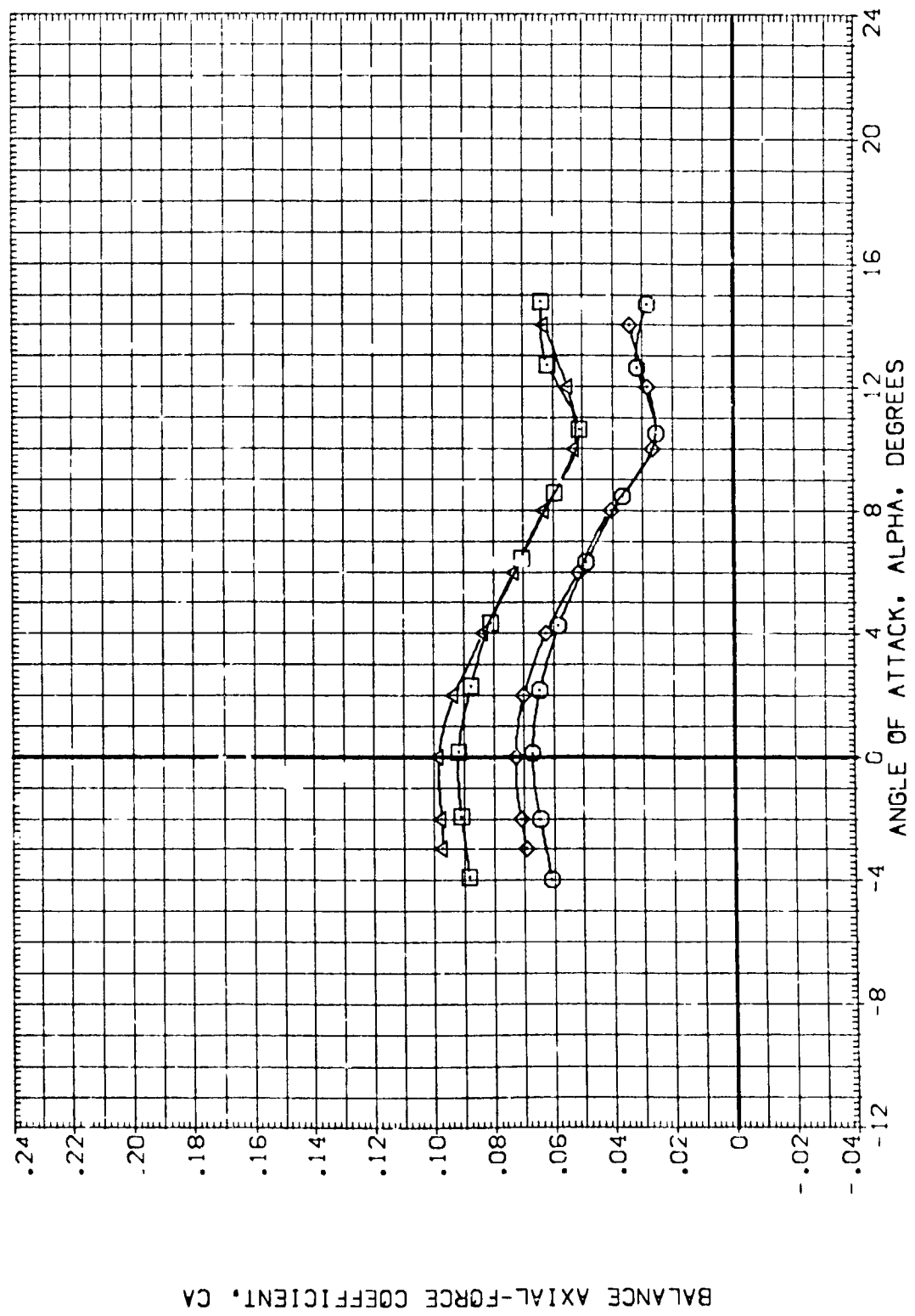


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(C00019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(C00020)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(I00019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 IN.
(I00020)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMPP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3150 IN.
					SCALE .0150

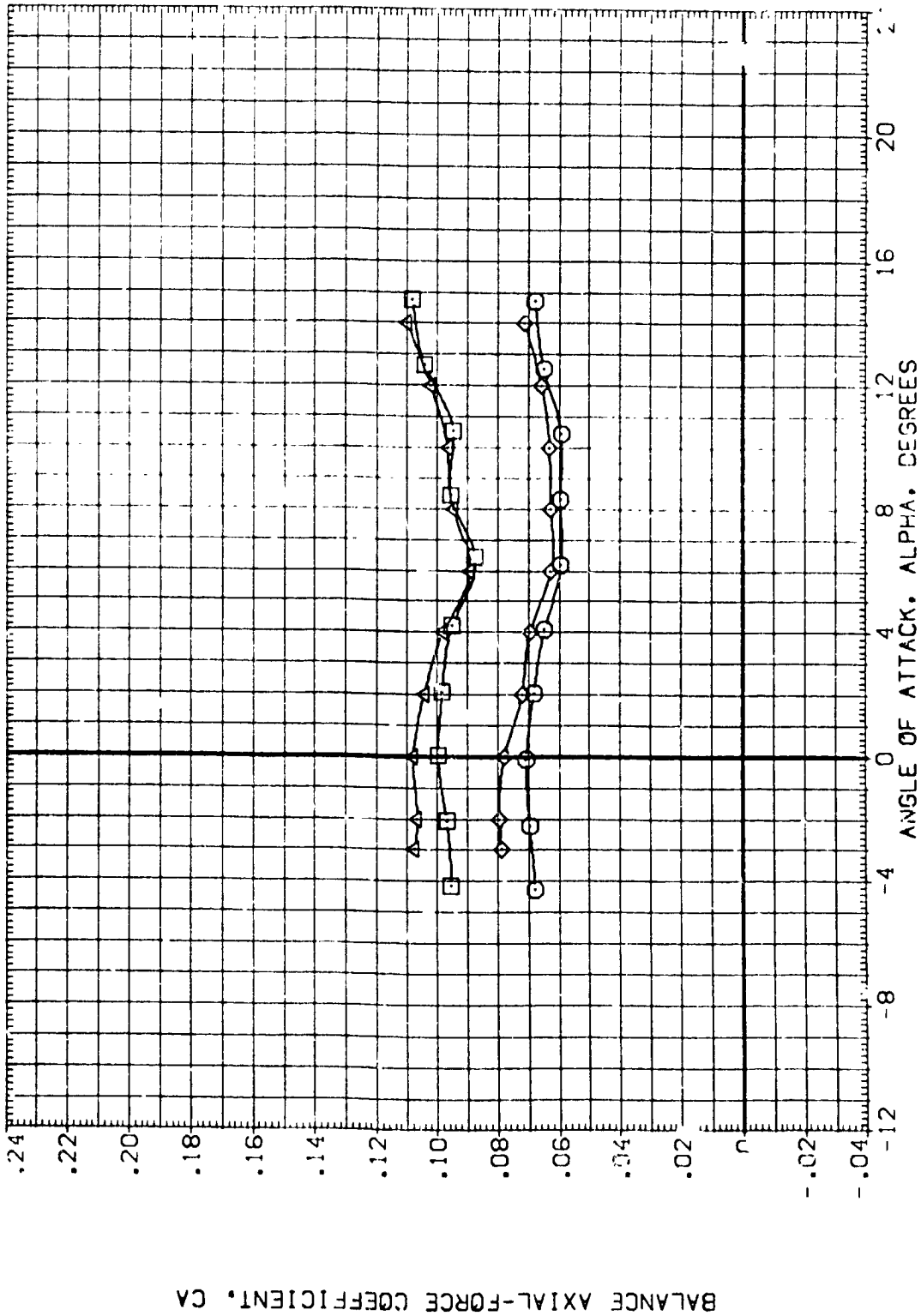


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER019) ARC 66-709 DAS9 DA11A-(N24)

(CER020) DATA NOT AVAILABLE

(CER019) ARC 66-709 DAS9 DA11A-N24 (ADJUSTED FOR TARES)

(CER020) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .8053 SQ.FT.

LREF .5935 FT.

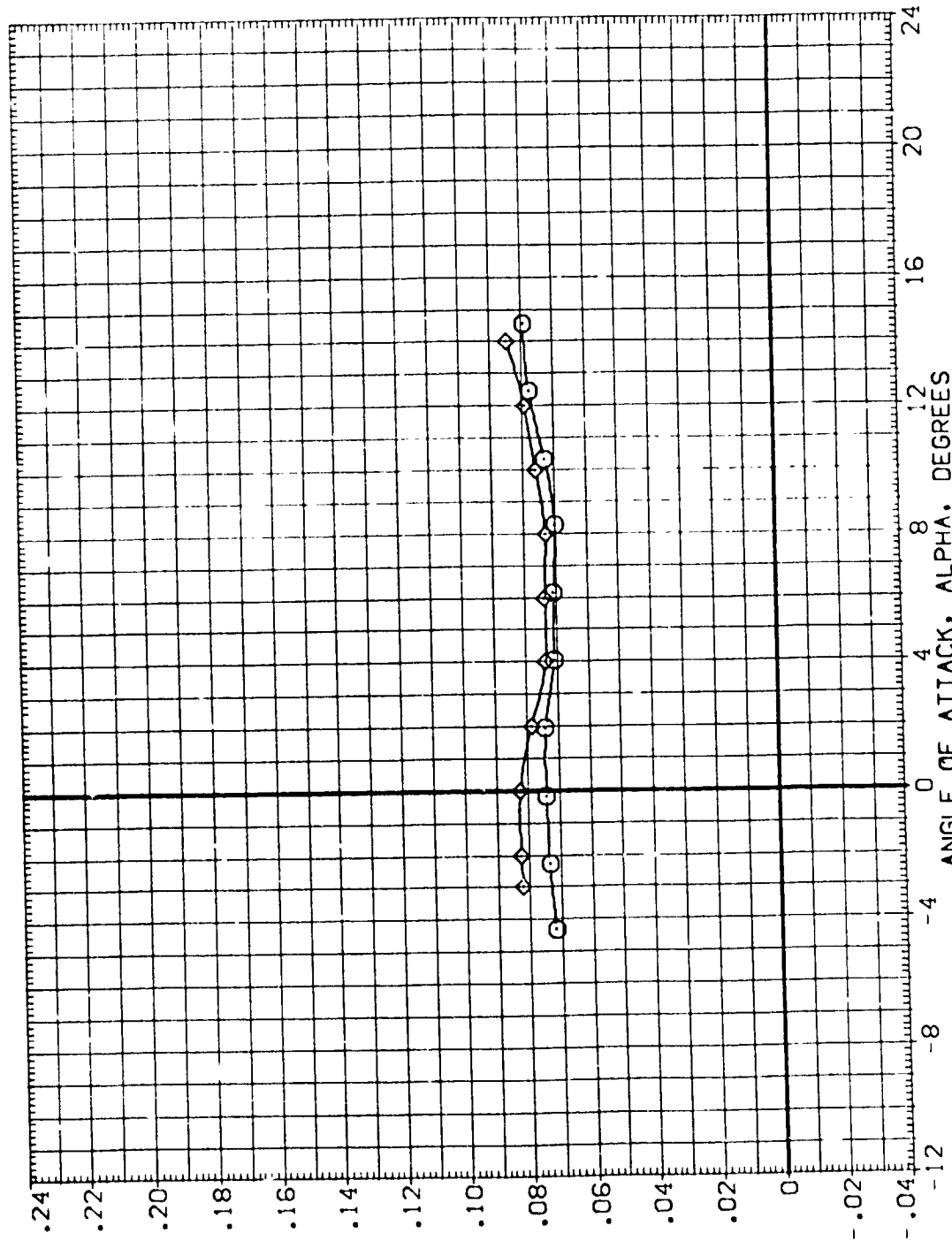
BREF 1.1710 IN.

XMPP 12.6255 IN.

YMPP .0000 IN.

ZMPP -.3750 IN.

SCALE .0150



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FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MAC = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(CERO20)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(CERO19)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(CERO20)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6755 IN.
					ZMRP .0000 IN.
					SCALE .0150

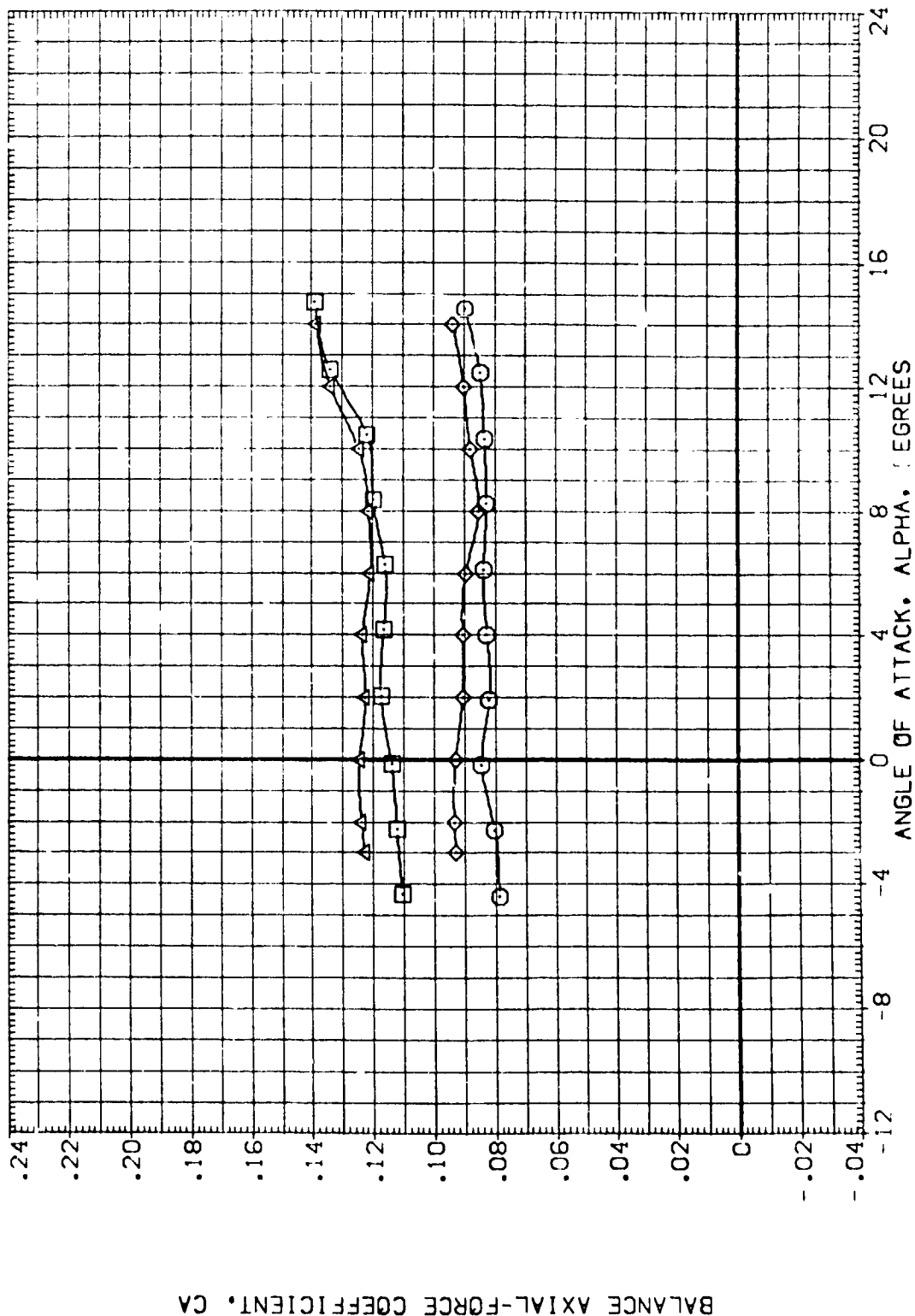


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(O)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION:
 (CERO19) ARC 66-709 OAS9 DA11A-(N24)
 (CERO20) DATA NOT AVAILABLE
 (CERO19) ARC 66-709 OAS9 DA11A-N24 (ADJUSTED FOR TARES)
 (CERO20) DATA NOT AVAILABLE

BETA ELEVON SDF LAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5936 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

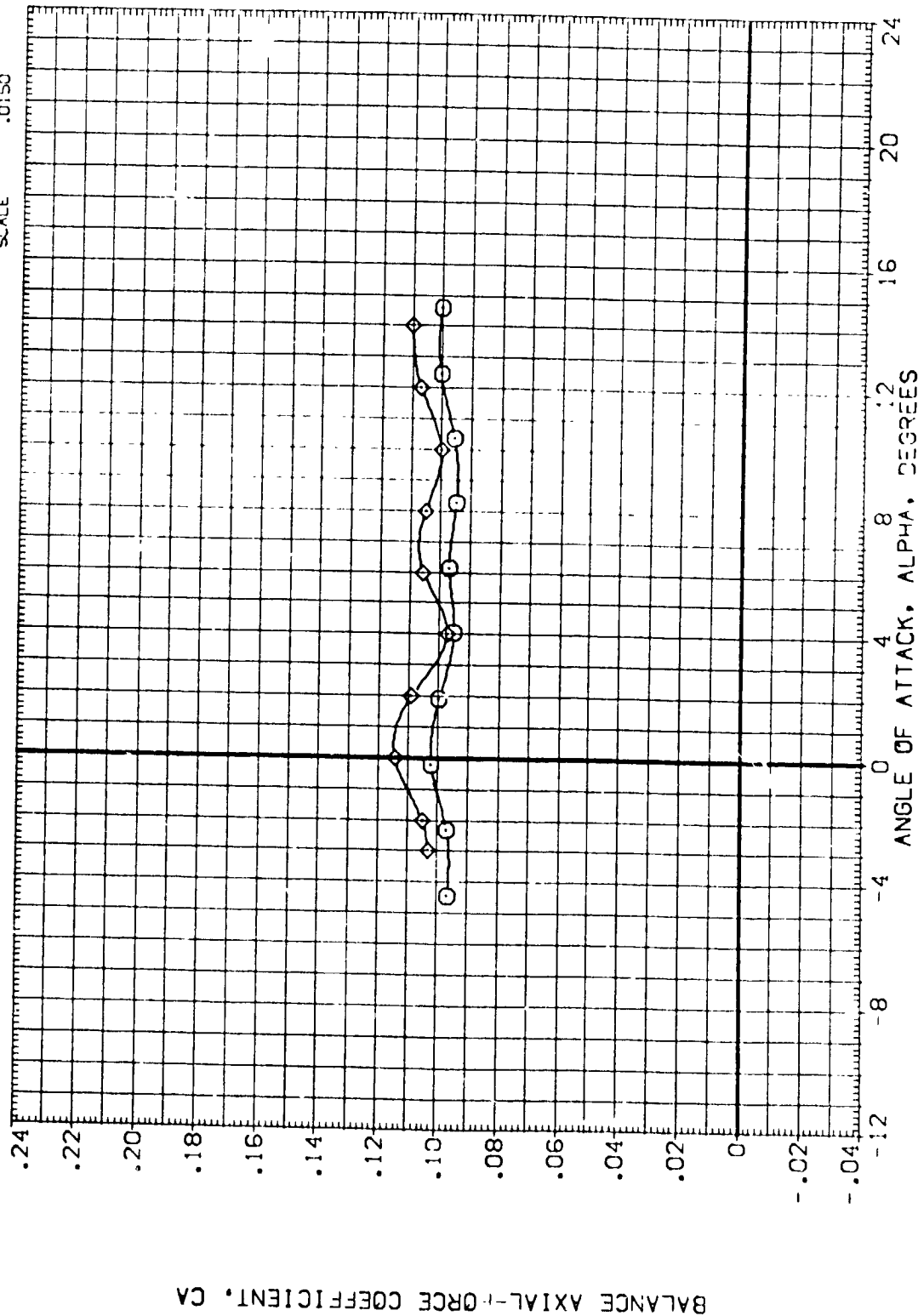


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(CERO)ACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[CERO19]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
[CERO20]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	LREF .5935 FT.
[TERO19]	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.110 FT. IN.
[TERO20]	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

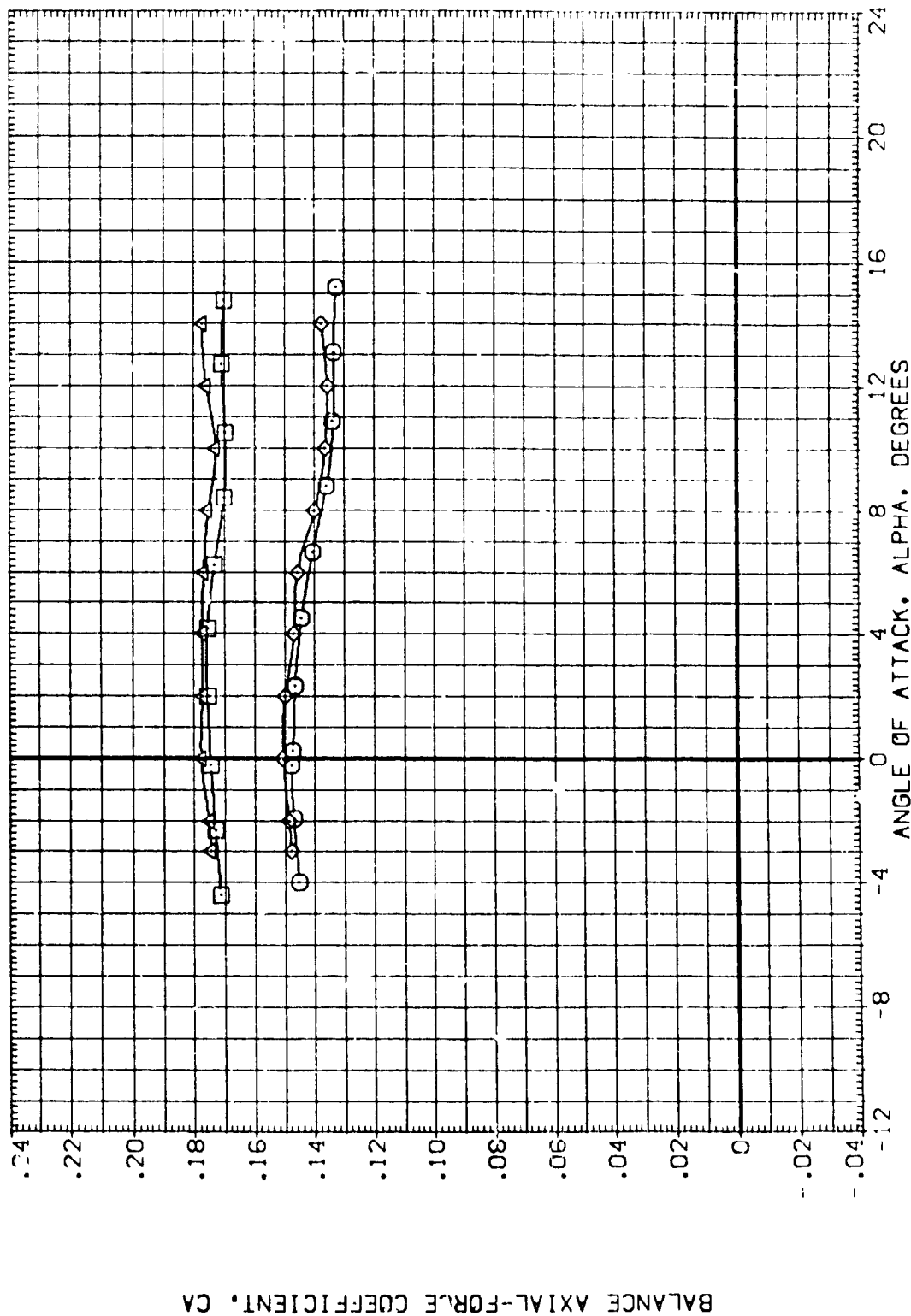


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(F)MAC-1 = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-70 QAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER020)	ARC 66-70 QAS9 0111A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(LER019)	ARC 66-70 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 IN.
(LER020)	ARC 66-70 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0030 IN.
					ZMRP -.3750 IN.
					SCALE .0150

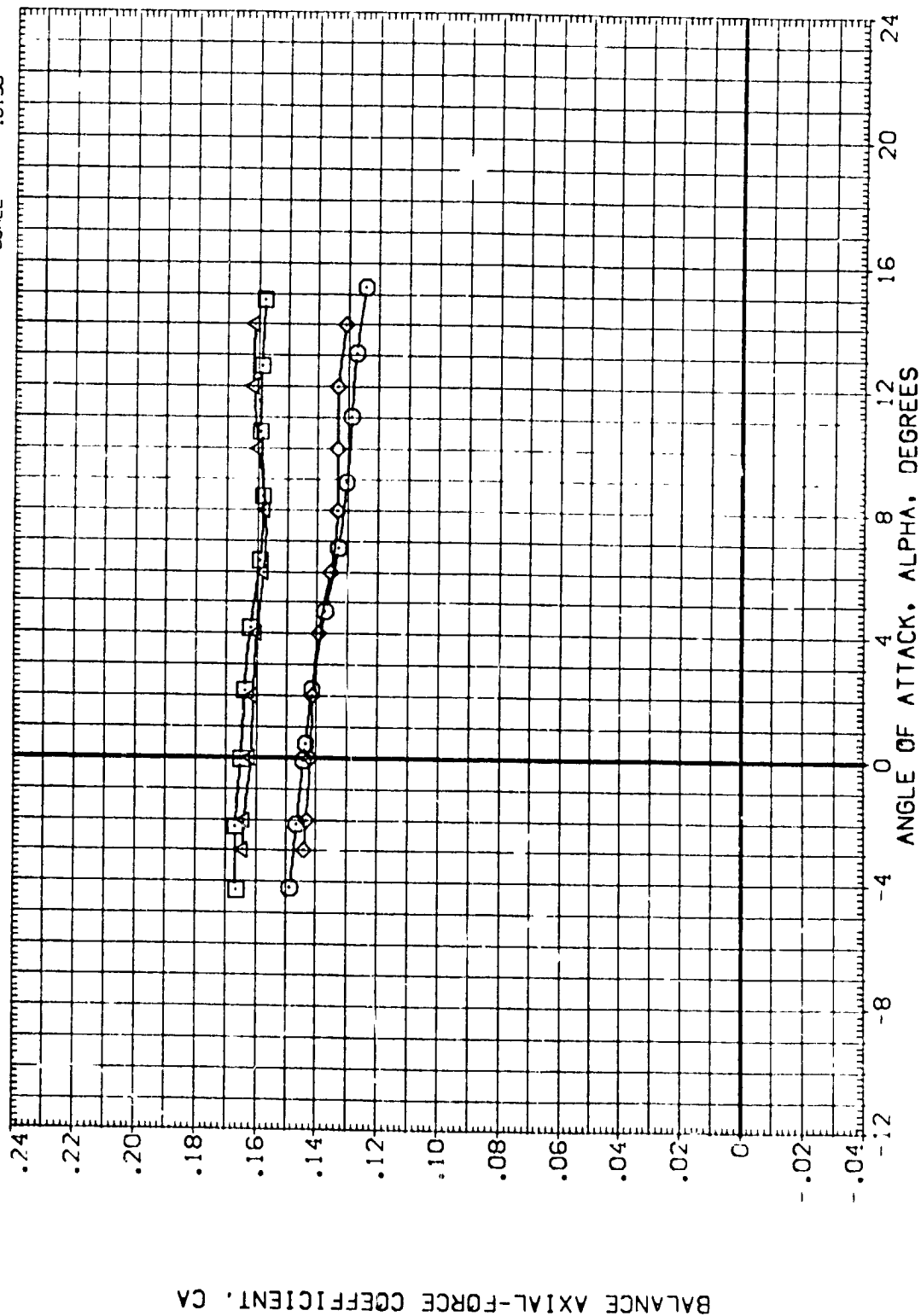


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MAC = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CER019) ARC 66-709 0A59 0A11A-(N24)
 (CER020) ARC 66-709 0A59 0A11A-(N24)
 (IER019) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
 (IER020) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRD 12.6255 IN.
 YMRD .0000 IN.
 ZMRD -.3750 IN.
 SCALE .0150

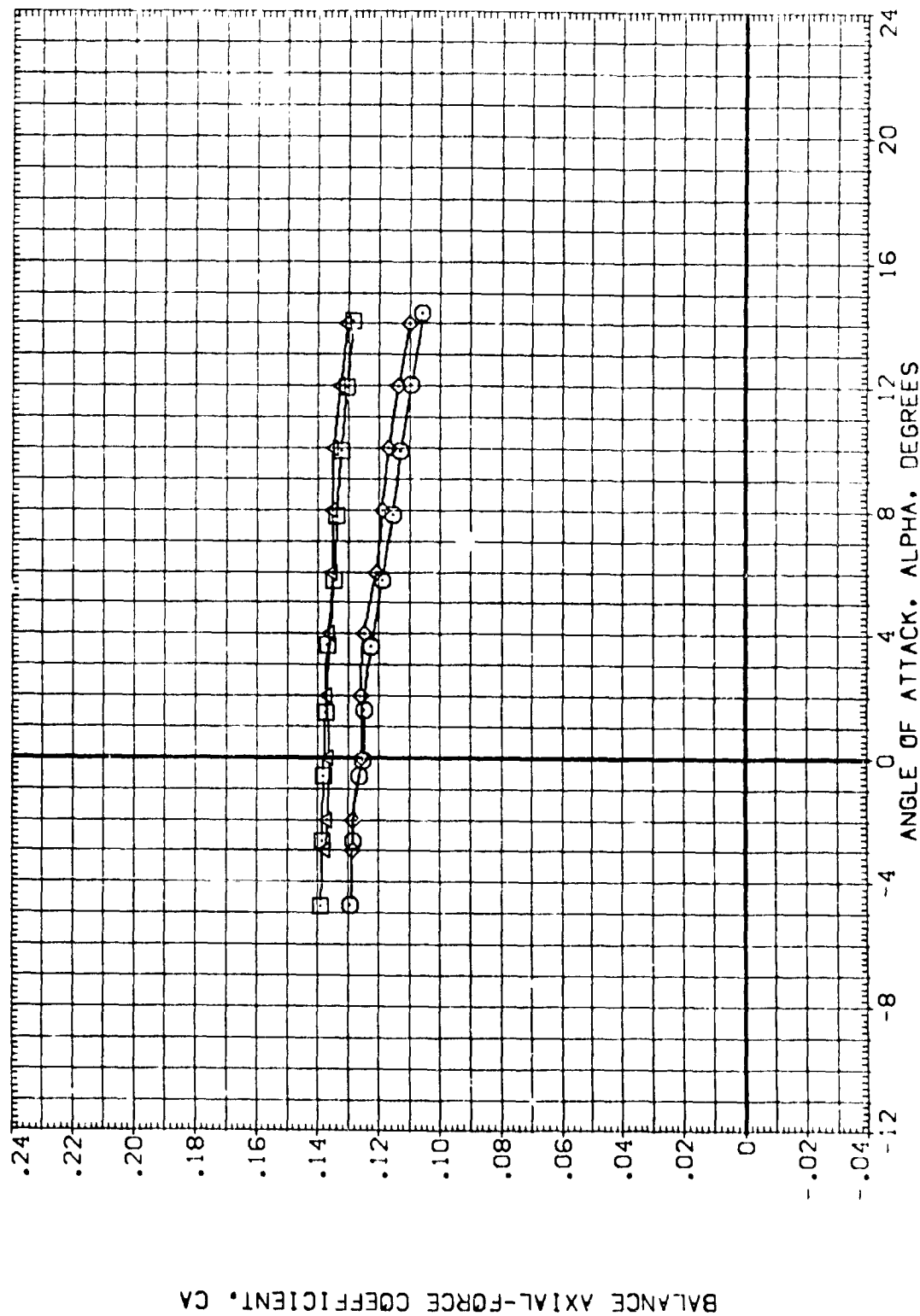


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(N24)

ARC 66-709 0A59 0A11A-(N24)

ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)

ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON 80FLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FV.

BREF 1.1710 IN.

YMRO 12.6255 IN.

ZMRO .0000 IN.

SCALE -.3750 IN.

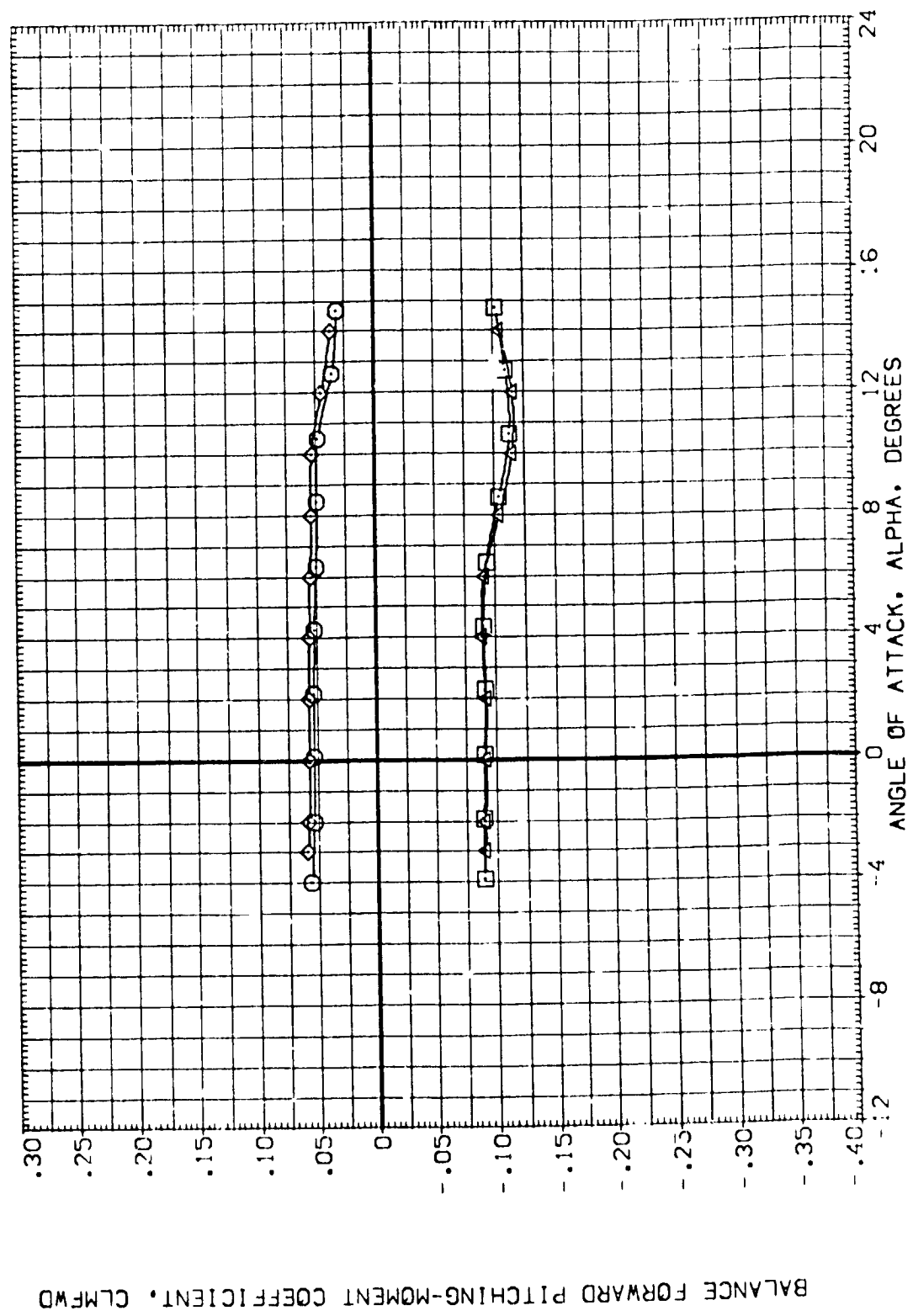


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MAC: .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 DASS DATA (N2A)	.000	.000	-11.700	SREF .6053 50.FT.
(CERO20)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(CERO19)	ARC 66-709 DASS DATA (N2A) (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(CERO20)	DATA NOT AVAILABLE	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

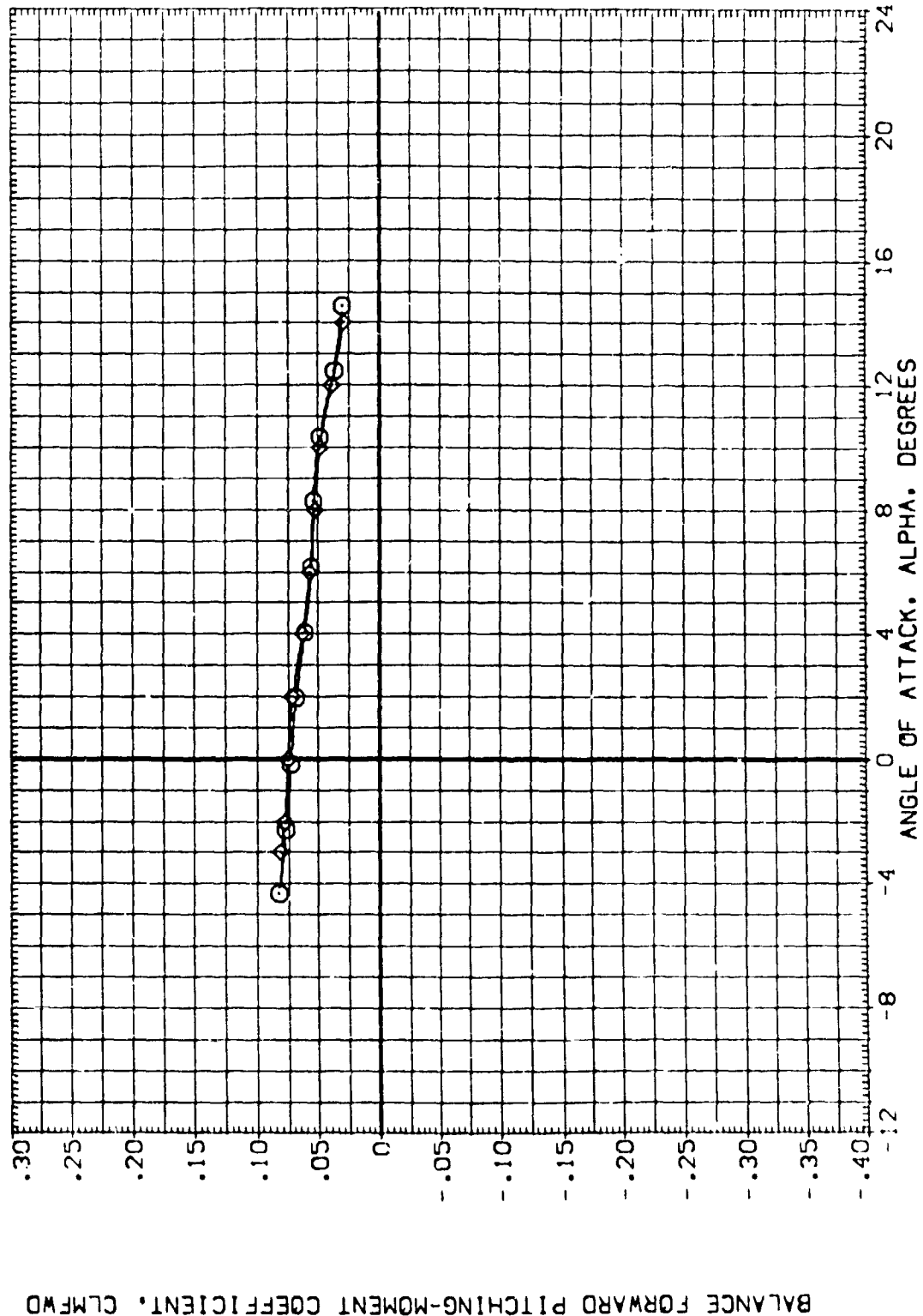


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MAC = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CER019) ARC 66-709 0A59 0A11A-(N24)
 (CER020) ARC 66-709 0A59 0A11A-(N24)
 (IER019) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
 (IER020) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 F.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

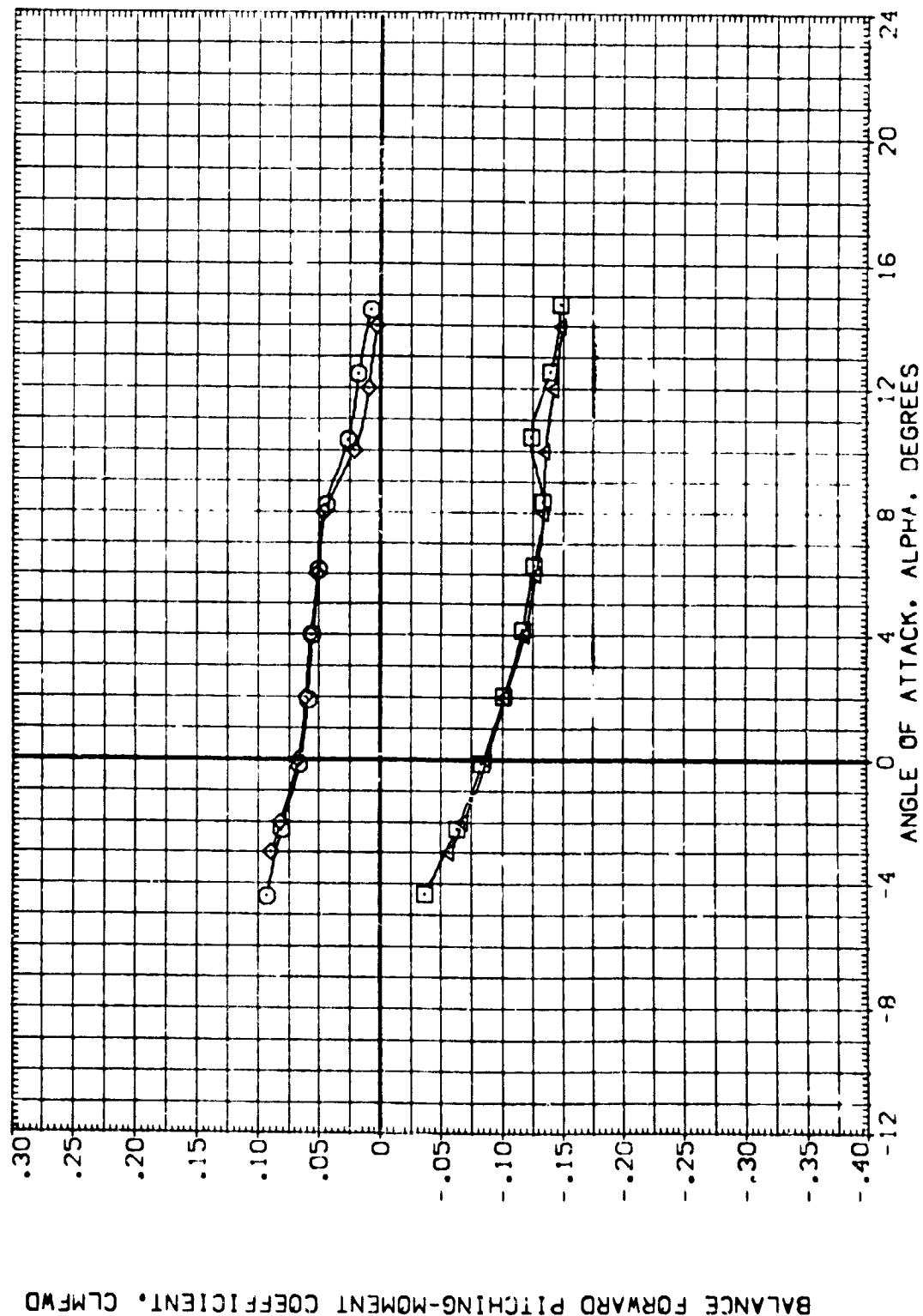


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(O)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CERO19) Q ARC 66-709 OA59 OA11A-(N24)
 (CERO20) X DATA NOT AVAILABLE
 (CERO19) X ARC 66-709 OA59 OA11A-N24 (ADJUSTED FOR TARES)
 (CERO20) X DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XPROP 12.6755 IN.
 YPROP .0000 IN.
 ZPROP -3.50 IN.
 SCALE .0150

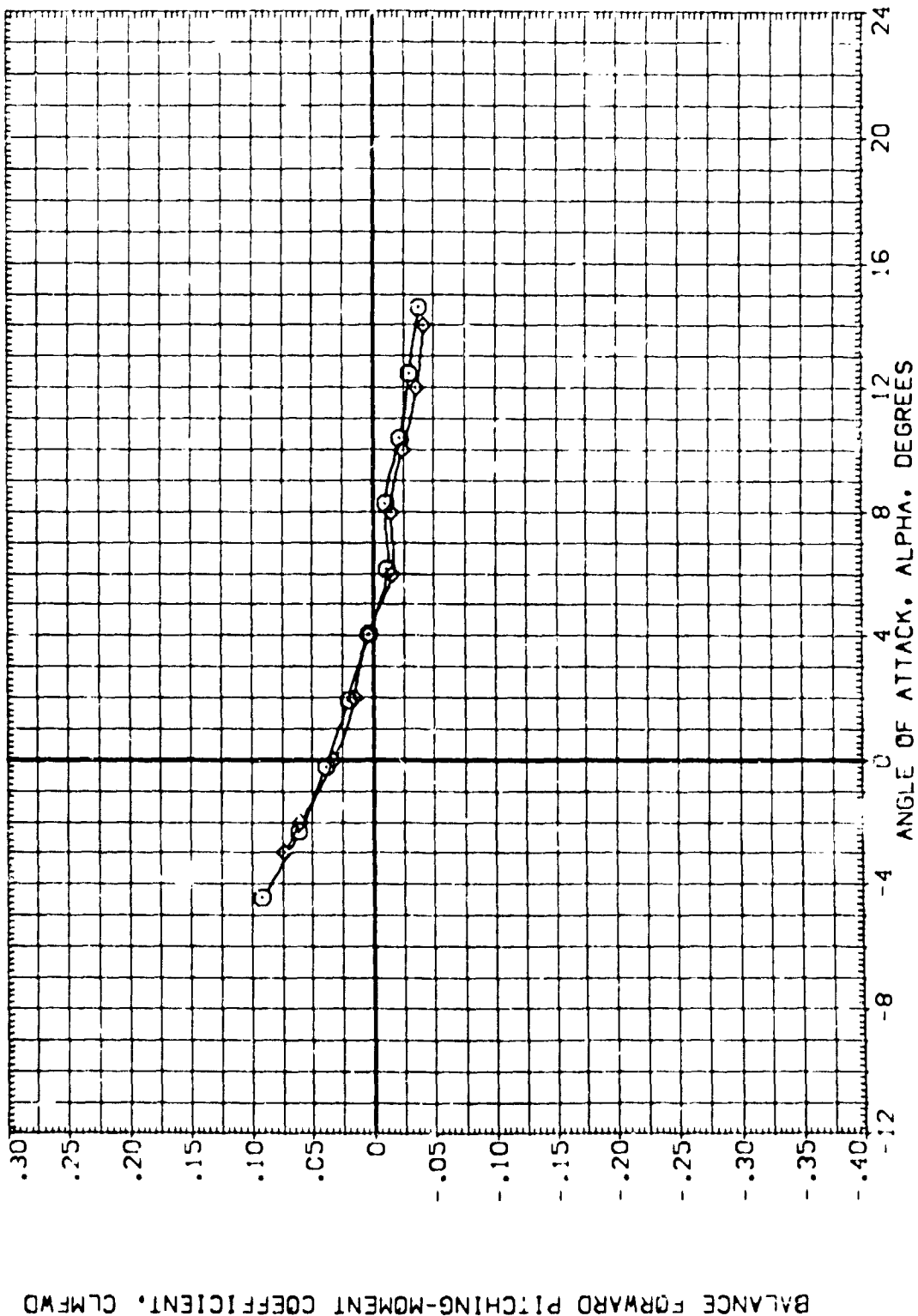


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(E)MAC = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CER019) Q ARC 66-709 0A59 0A11A-(N24)
 (CER020) X ARC 66-709 0A55 0A11A-(N24)
 (TER019) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
 (TER020) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SPEC .6053 SQ.FT.
 LREF .5835 FT.
 BRLE 1.1710 IN.
 XMRD 12.6250 IN.
 YMRD .0000 IN.
 ZMRD -.3750 IN.
 SCALE .0150

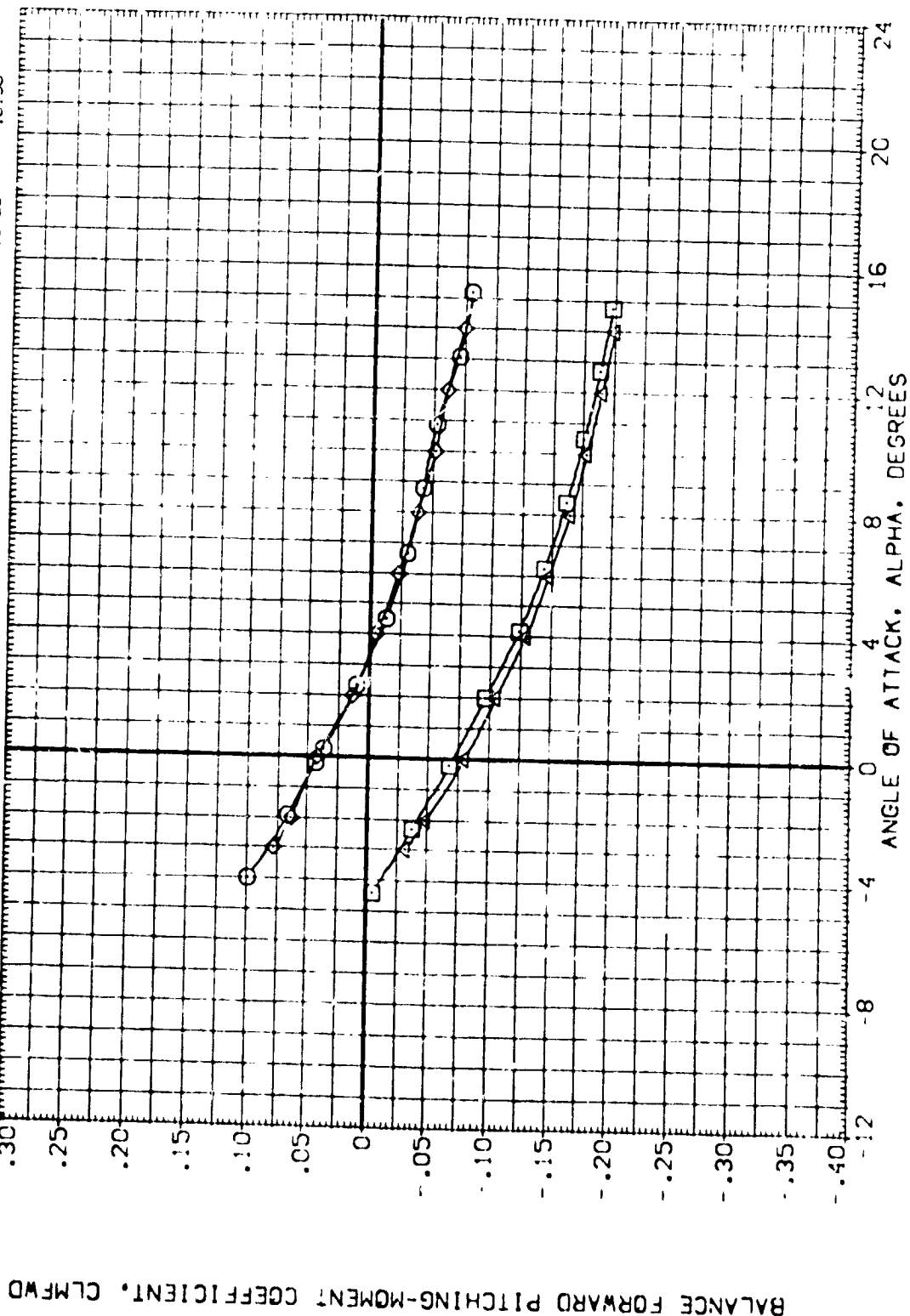


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(CMFWD) - 1.70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 QAS9 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(CER020)	ARC 66-709 QAS9 0A11A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(TER019)	ARC 66-709 QAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 IN.
(TER020)	ARC 66-709 QAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XTRP 12.6255 IN.
					YTRP .0000 IN.
					ZTRP -.3750 IN.
					SCALE .0 50

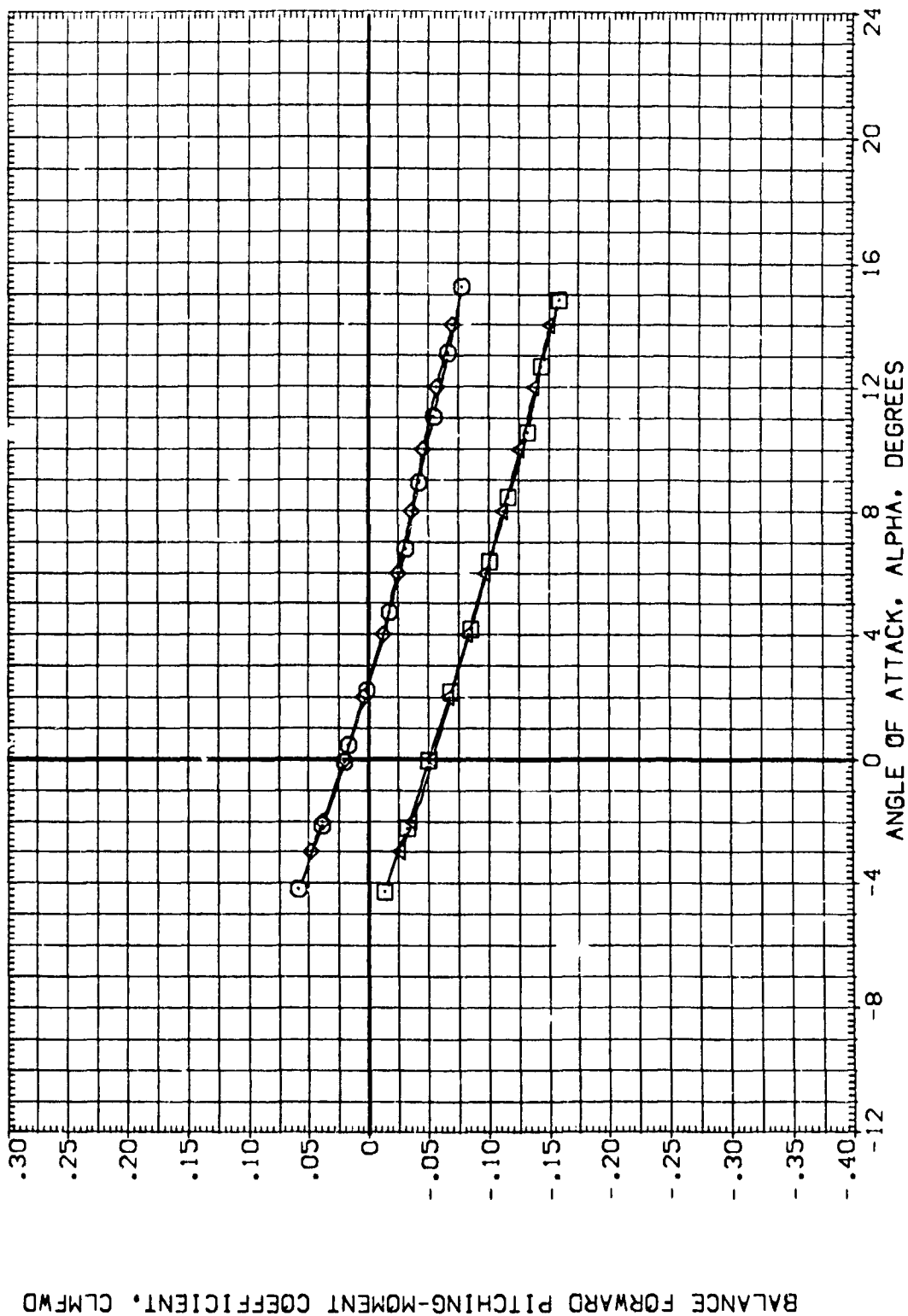


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER020)	ARC 66-709 DA59 DA11A-(N24)	.000	.5.000	-11.700	LREF .5935 FT.
(IER019)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(IER020)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.5.000	-11.700	XMRF 12.6255 IN.
					YMRF .0000 IN.
					ZMRF -.3750 IN.
					SCALE .0150

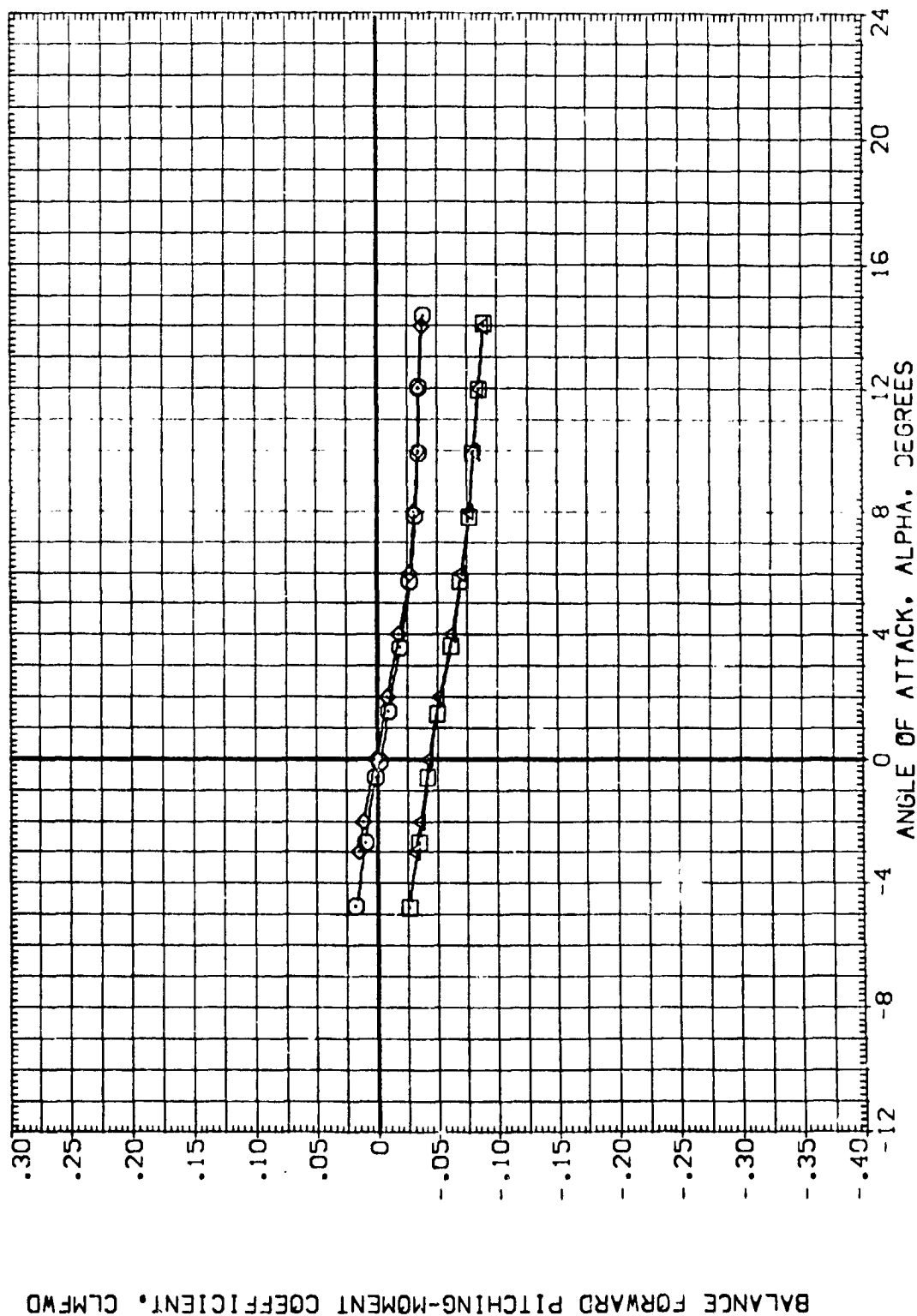


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOE LAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 QAS9 Q111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER020)	ARC 66-709 QAS9 Q111A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(TER019)	ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(TER020)	ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

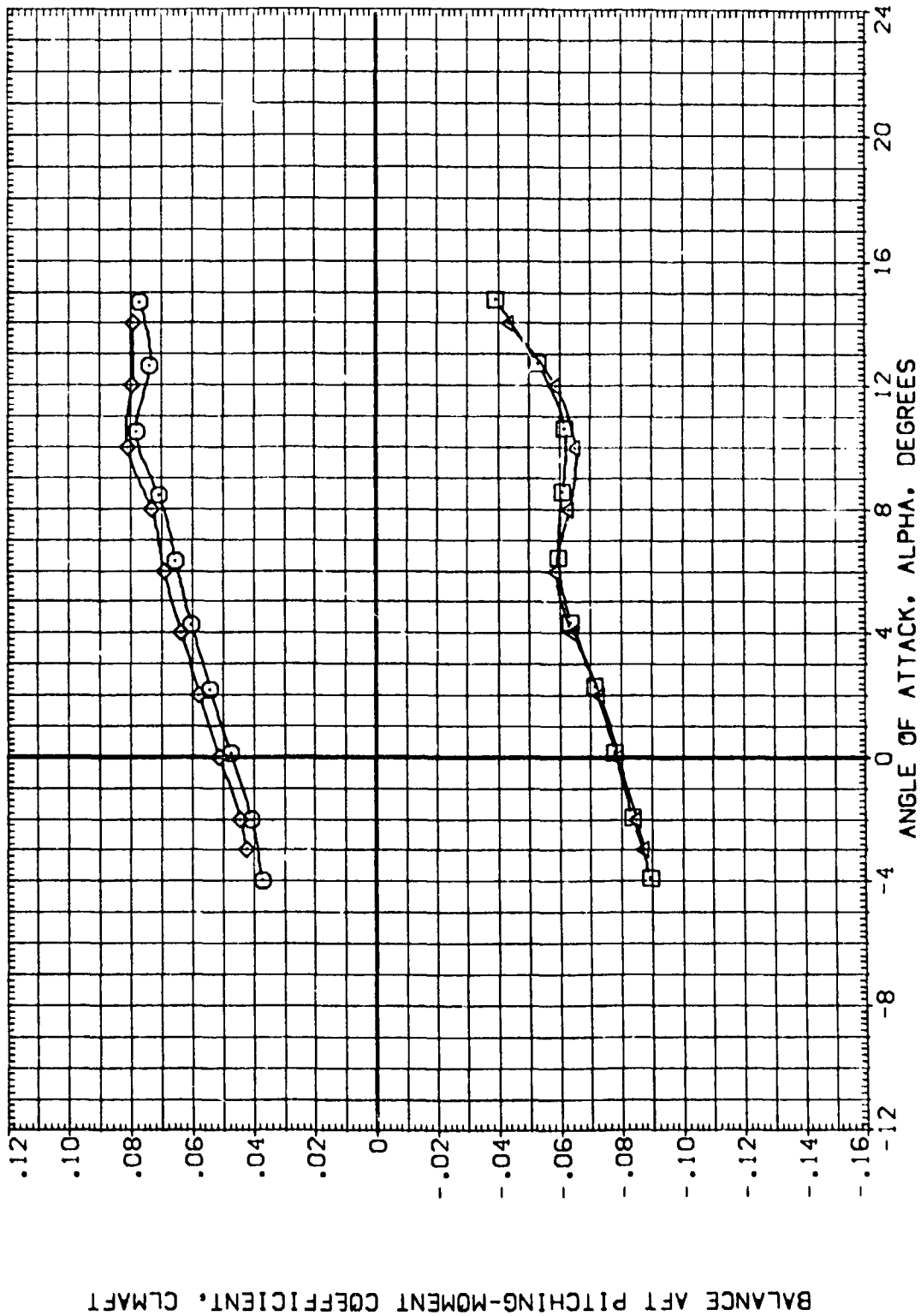


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CER019) ARC 66-709 QAS9 0111A-(N24)
 (CER020) ARC 66-709 QAS9 0111A-(N24)
 (TER019) ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)
 (TER020) ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700

REFERENCE INFORMATION
 SREF .6053 50 FT.
 LREF .5935 FT.
 BREF 1.1710 IN.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

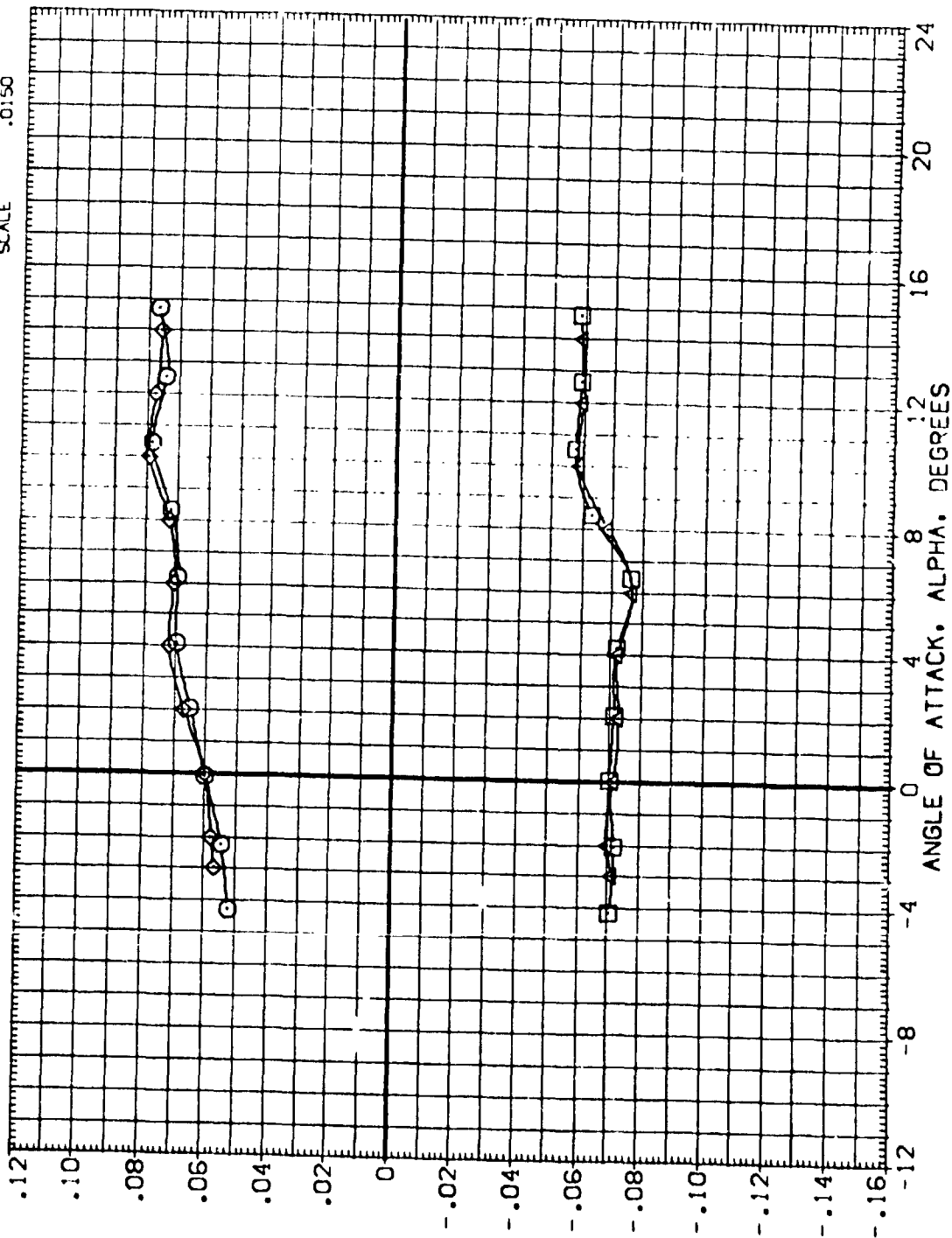




FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .80

DATA SET SYMBOL:   CONFIGURATION DESCRIPTION: ARC 66-70C 2459 D11A-N24 (ADJUSTED FOR TARES)
 (CER019) DATA NOT AVAILABLE
 (CER070) DATA NOT AVAILABLE
 (TER019) DATA NOT AVAILABLE
 (TER070) DATA NOT AVAILABLE

BETA: .000 ELEVON: .000 BOFLAP: .000
 .000 15.000 -11.700
 .000 15.000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION: SREF: .6053 SQ.FT.
 LREF: .5935 FT.
 BREF: 1.1710 FT.
 XMRP: 12.6255 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

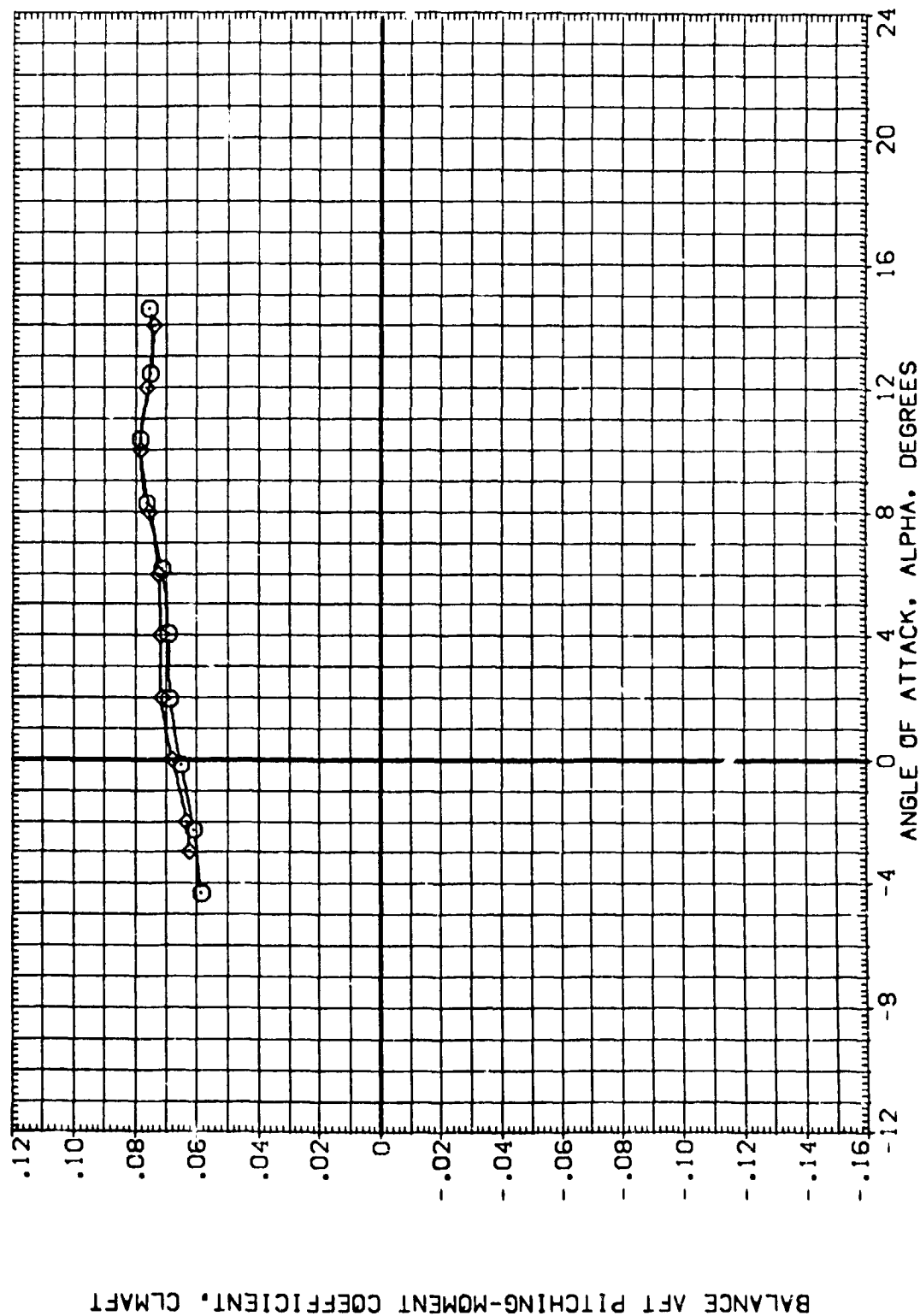


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDELAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER020)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(IER019)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(IER020)	DATA NOT AVAILABLE	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

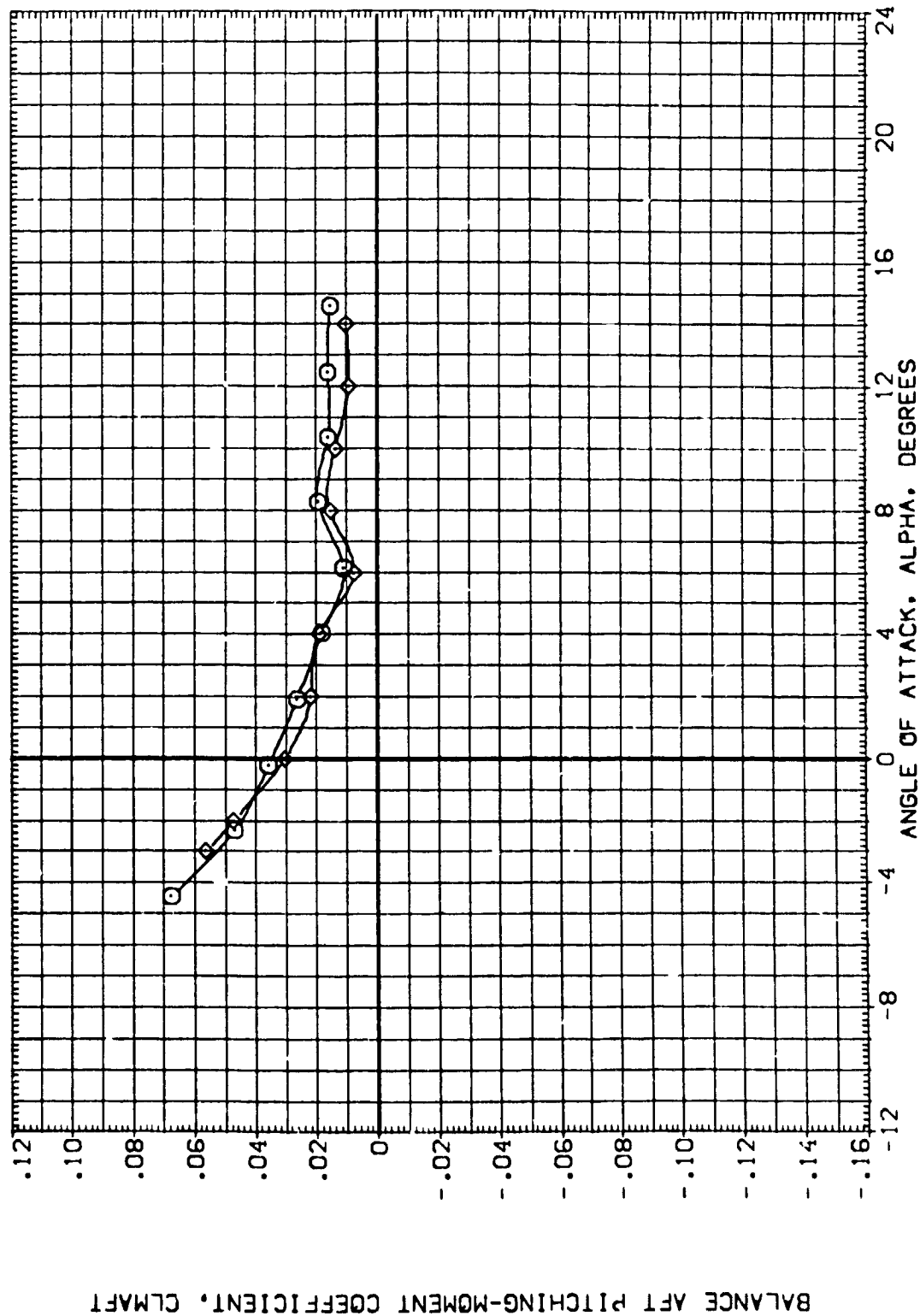


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(E)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CERO20)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(CERO19)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(CERO20)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE 0.150

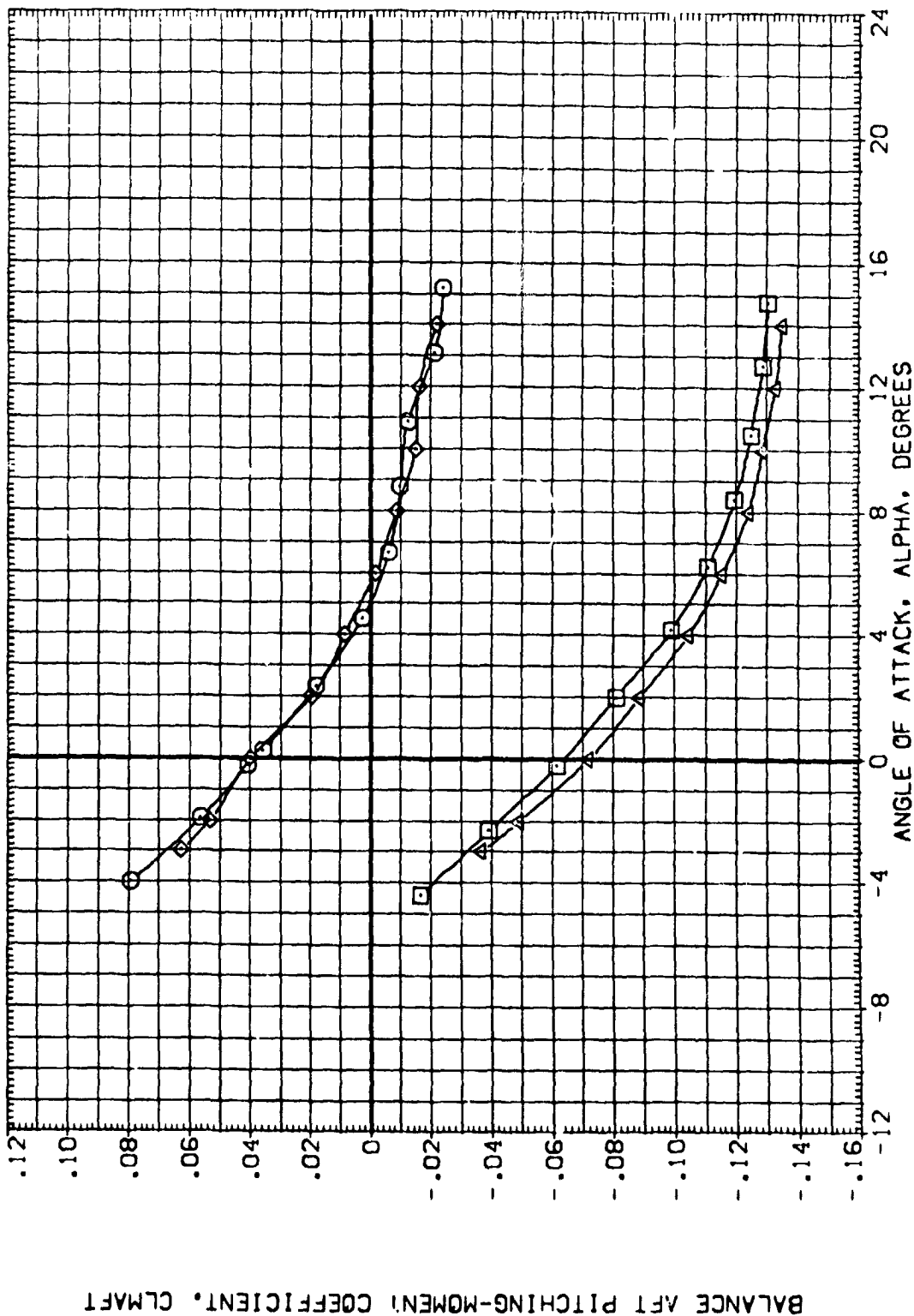


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CERO20)	ARC 66-709 0A59 0A11A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(IERO19)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(IERO20)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

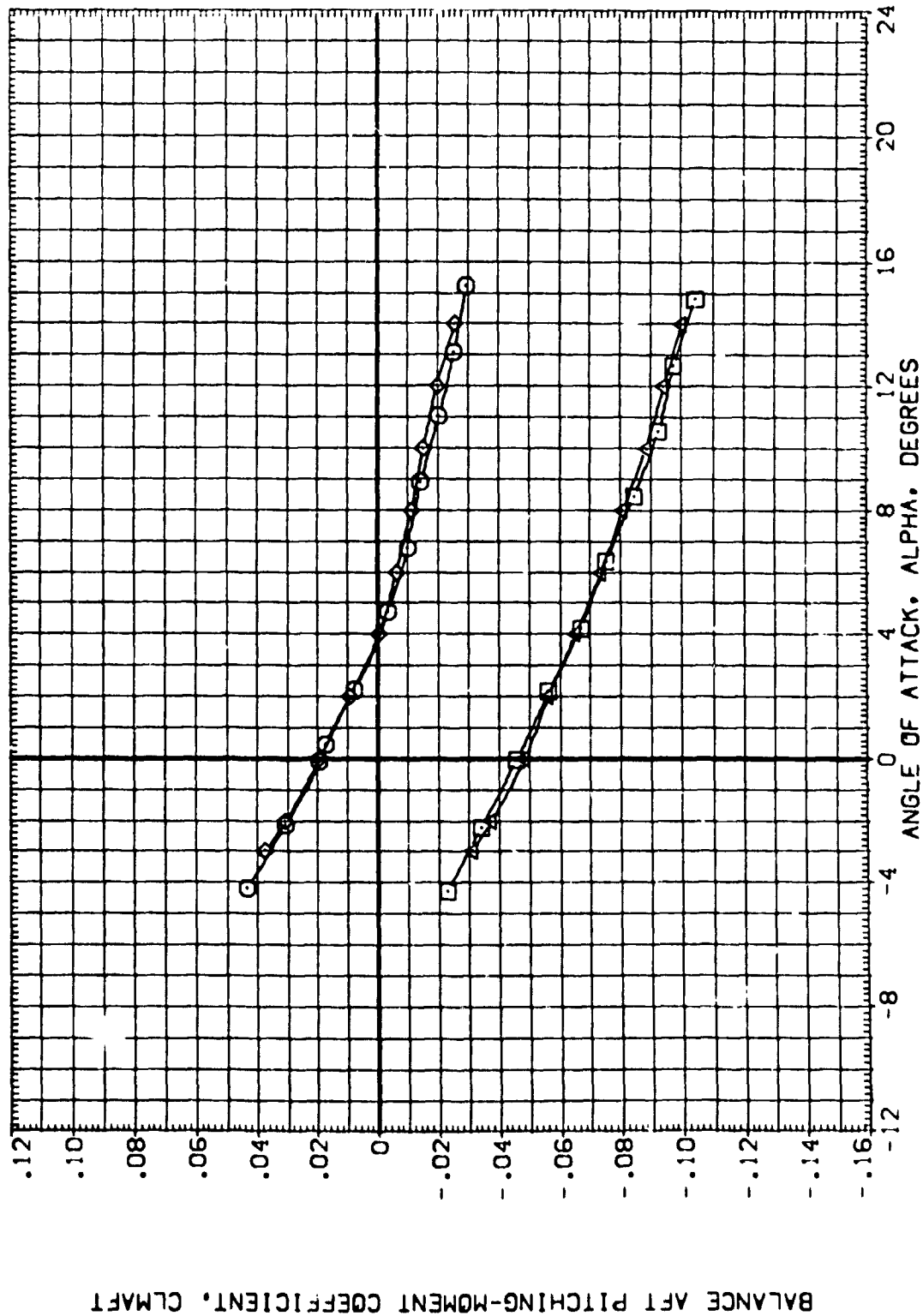


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6054 50.FT.
(CFR020)	ARC 66-709 0A59 0A11A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(IER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 IN.
(IER020)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	YMRP 12.6255 IN.
					ZMRP -.3750 IN.
					SCALE .0150

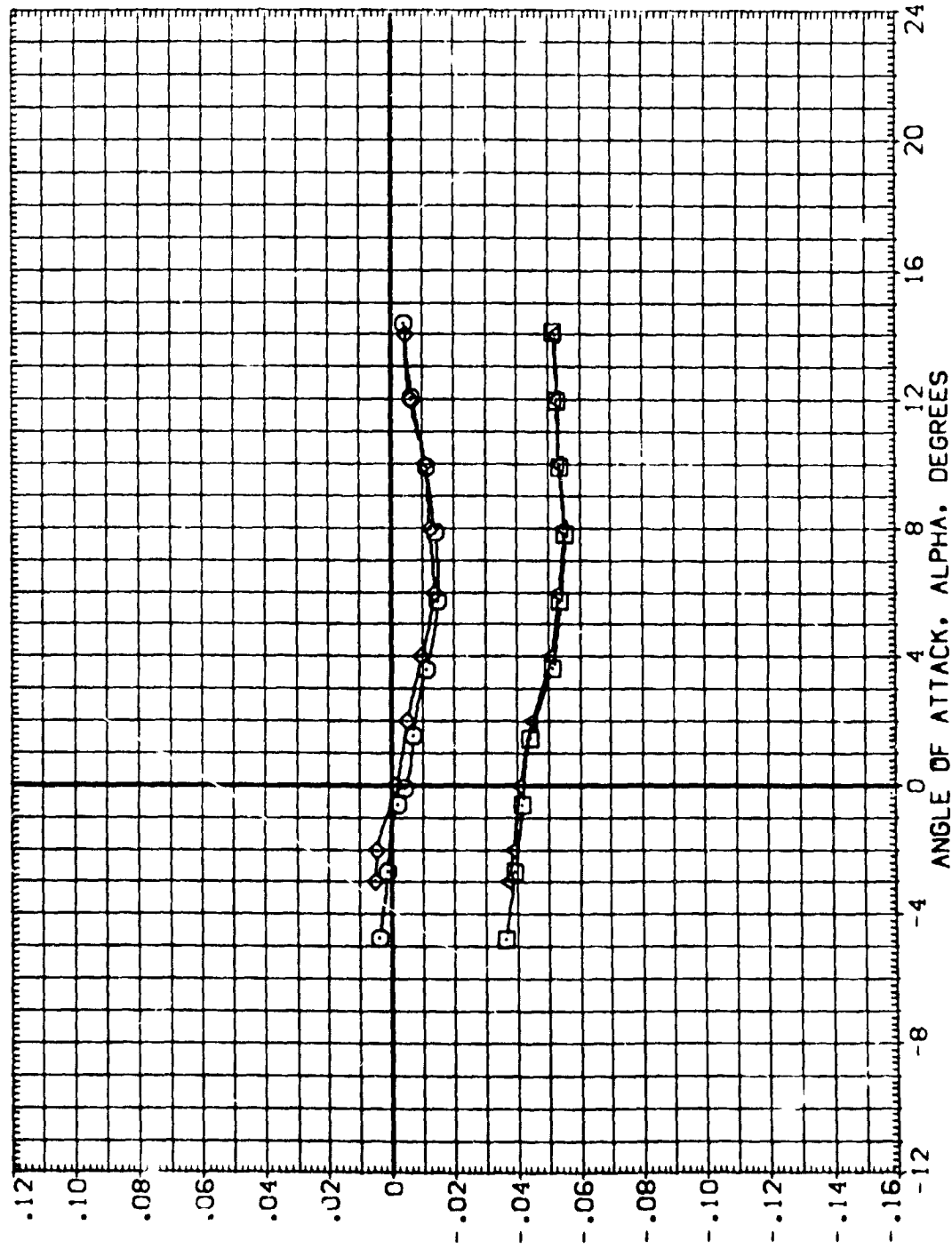


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES
[H]MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 OAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CERO20)	ARC 66-709 OAS9 0111A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(CERO19)	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(CERO20)	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	YMRP 12.6265 IN.
					ZMRP .0000 IN.
					SCALE .0150

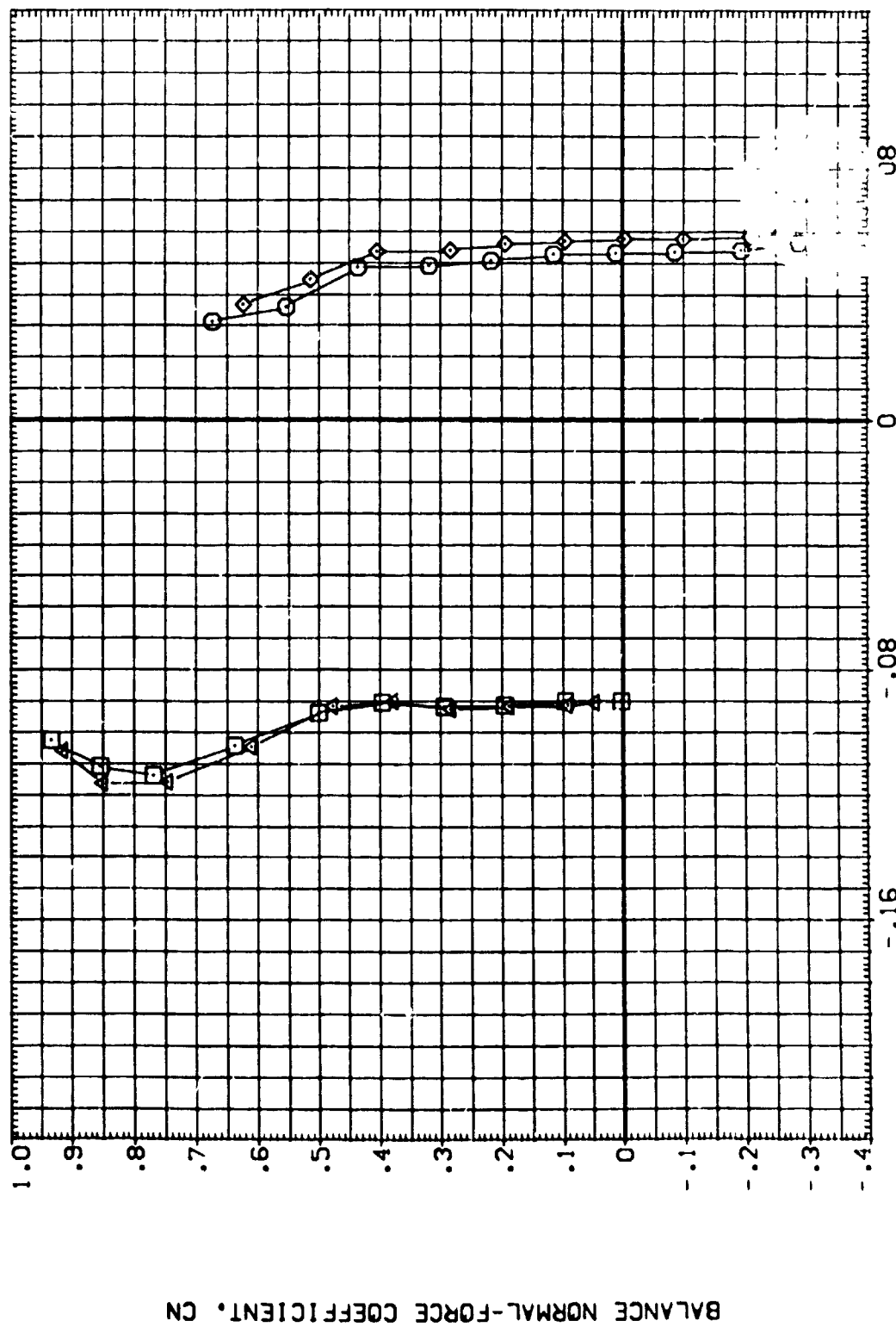


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 0159 0111A-(N24)	.000	.000	-.700	SREF .6053 SQ.FT.
(CERO20)	ARC 66-709 0159 0111A-(N24)	.000	.000	-.700	LREF .5936 FT.
(TERO19)	ARC 66-709 0159 0111A-(N24) (ADJUSTED FOR TARES)	.000	.000	-.700	BREF 1.1710 IN.
(TERO20)	ARC 66-709 0159 0111A-(N24) (ADJUSTED FOR TARES)	.000	.000	-.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

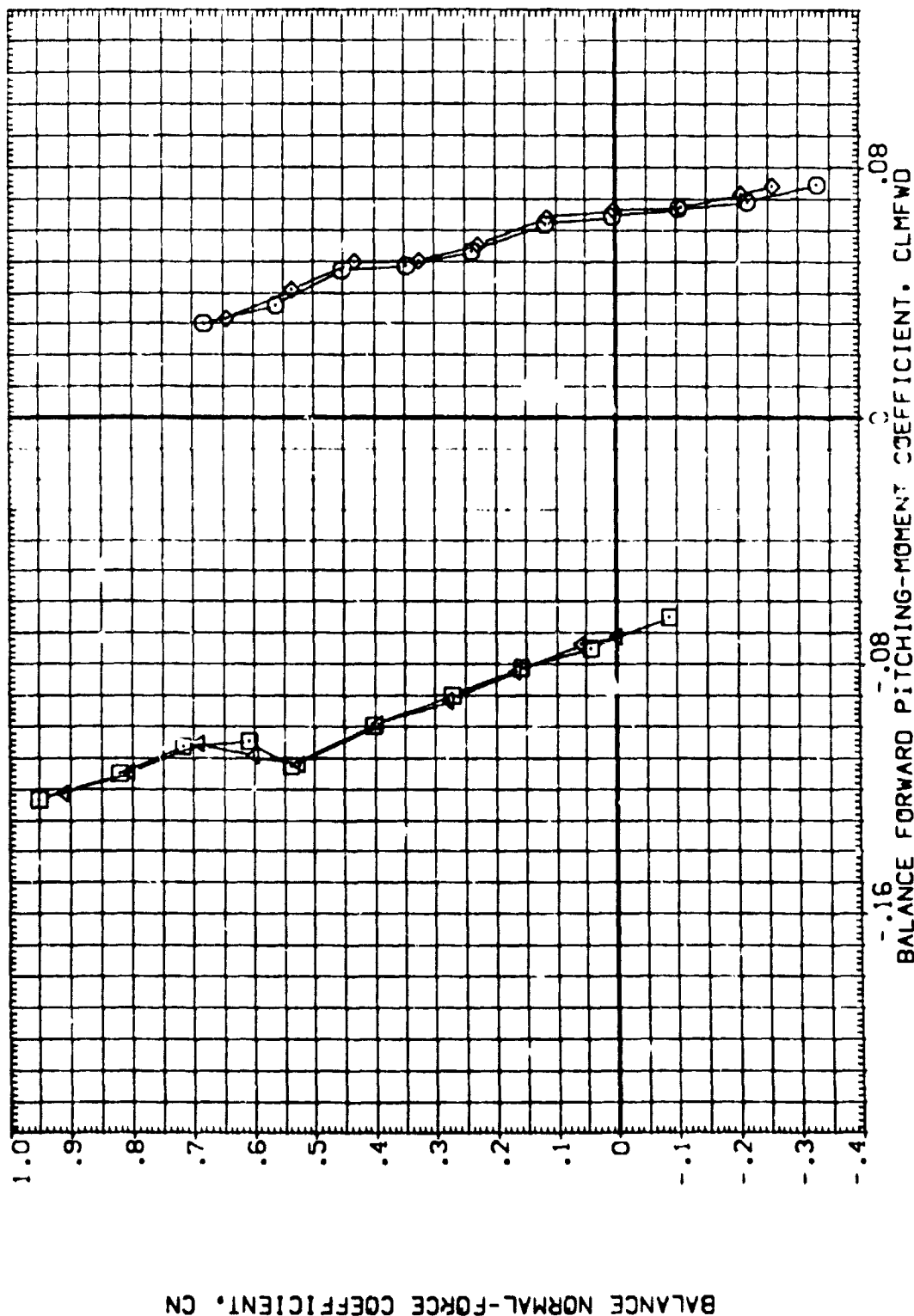


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 50 FT.
(CERO20)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(CERO19)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(CERO20)	DATA NOT AVAILABLE	.000	15.000	-11.700	XPRP 12.6235 IN.
					YPRP .0000 IN.
					ZPRP -.3750 IN.
					SCALE .0150

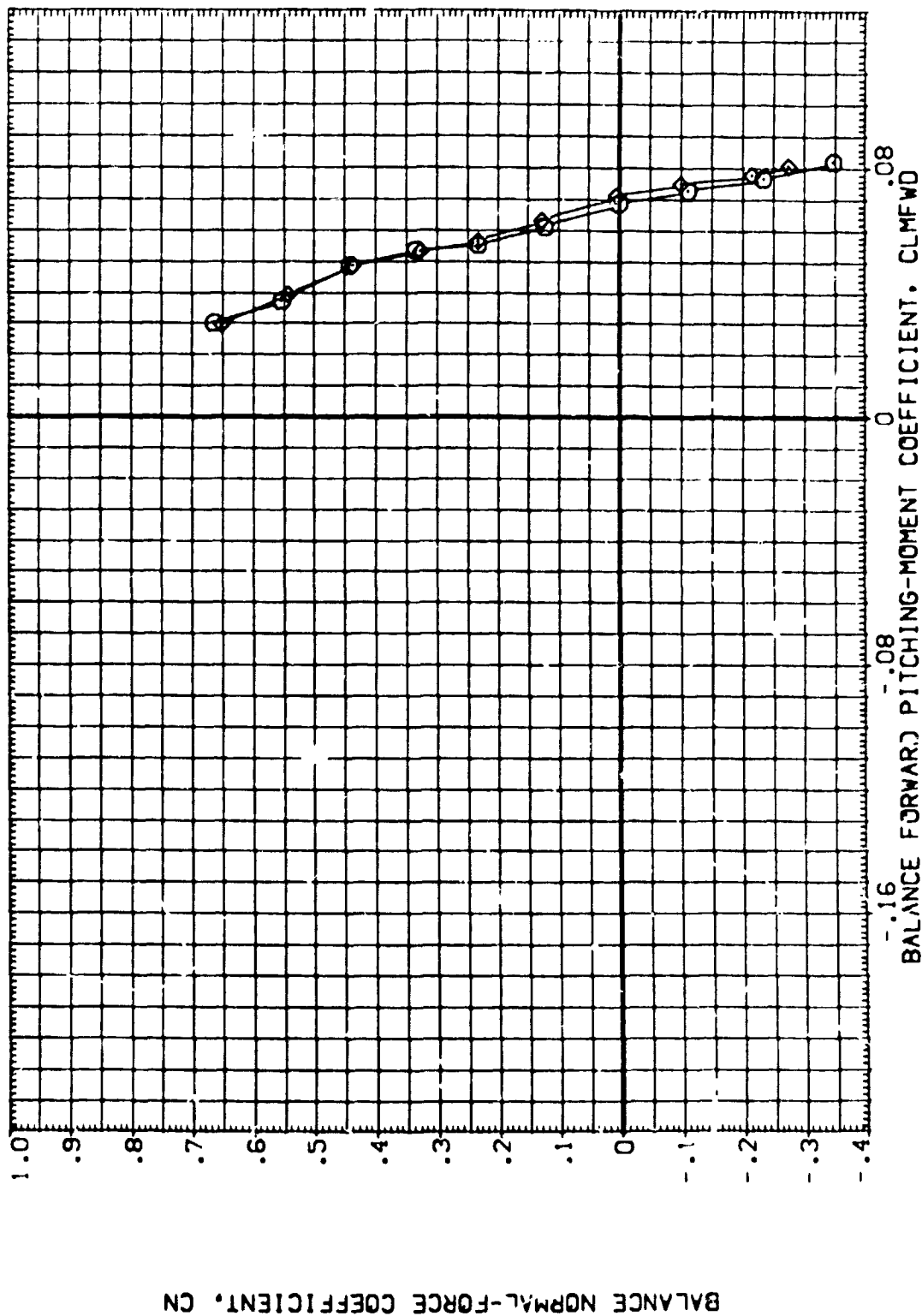


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 DASS 0111A-N24	.000	.000	-11.700	SREF .5053 SQ.FT.
(CER020)	ARC 66-709 DASS 0111A-N24	.000	15.000	-11.700	LREF .5935 FT.
(TER019)	ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(TER020)	ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMPP 12.6755 IN.
					YMPP .0000 IN.
					ZMPP -.3750 IN.
					SCALE .0150

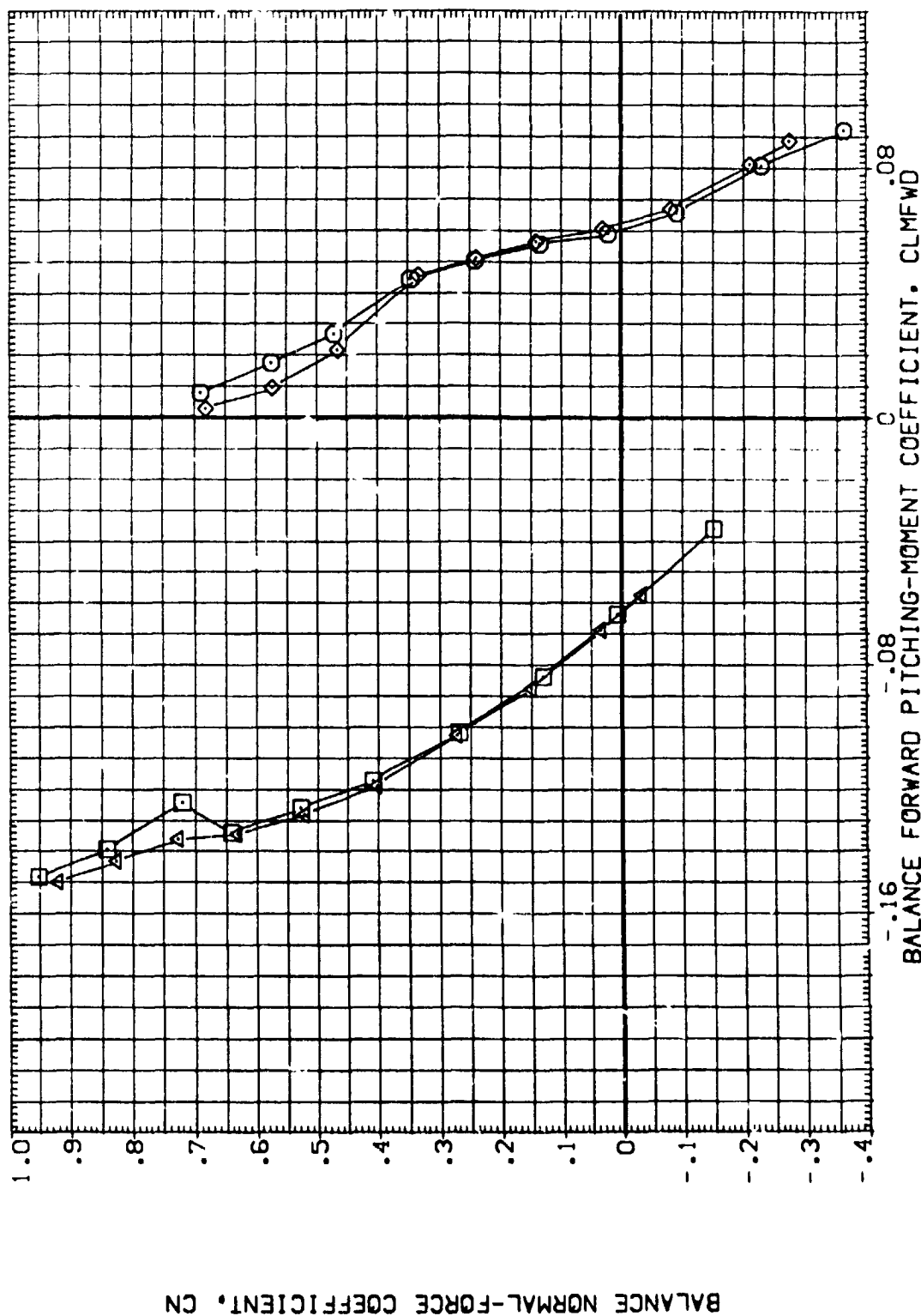


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CER019) ARC 66-709 OAS9 0111A-(N24)
 (CER020) DATA NOT AVAILABLE
 (1ER019) ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)
 (1ER020) DATA NOT AVAILABLE

BETA ELEVON BDFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

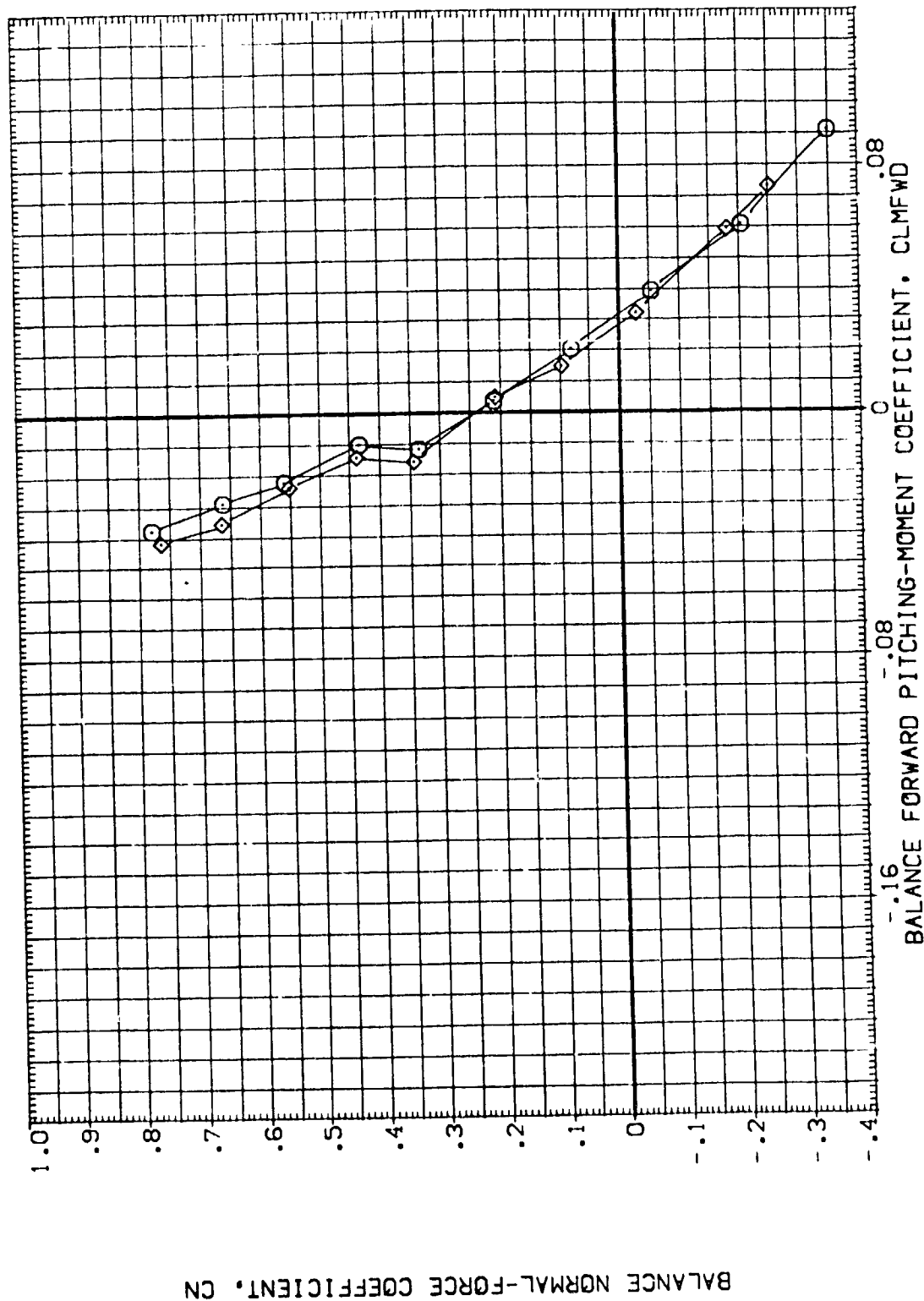


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL. CONFIGURATION DESCRIPTION

(CER019) ARC 66-709 DASS 0111A-(N24)

(CER020) ARC 66-709 DASS 0111A-(N24)

(IER019) ARC 66-709 DASS 0111A-(N24) (ADJUSTED FOR TARES)

(IER020) ARC 66-709 DASS 0111A-(N24) (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

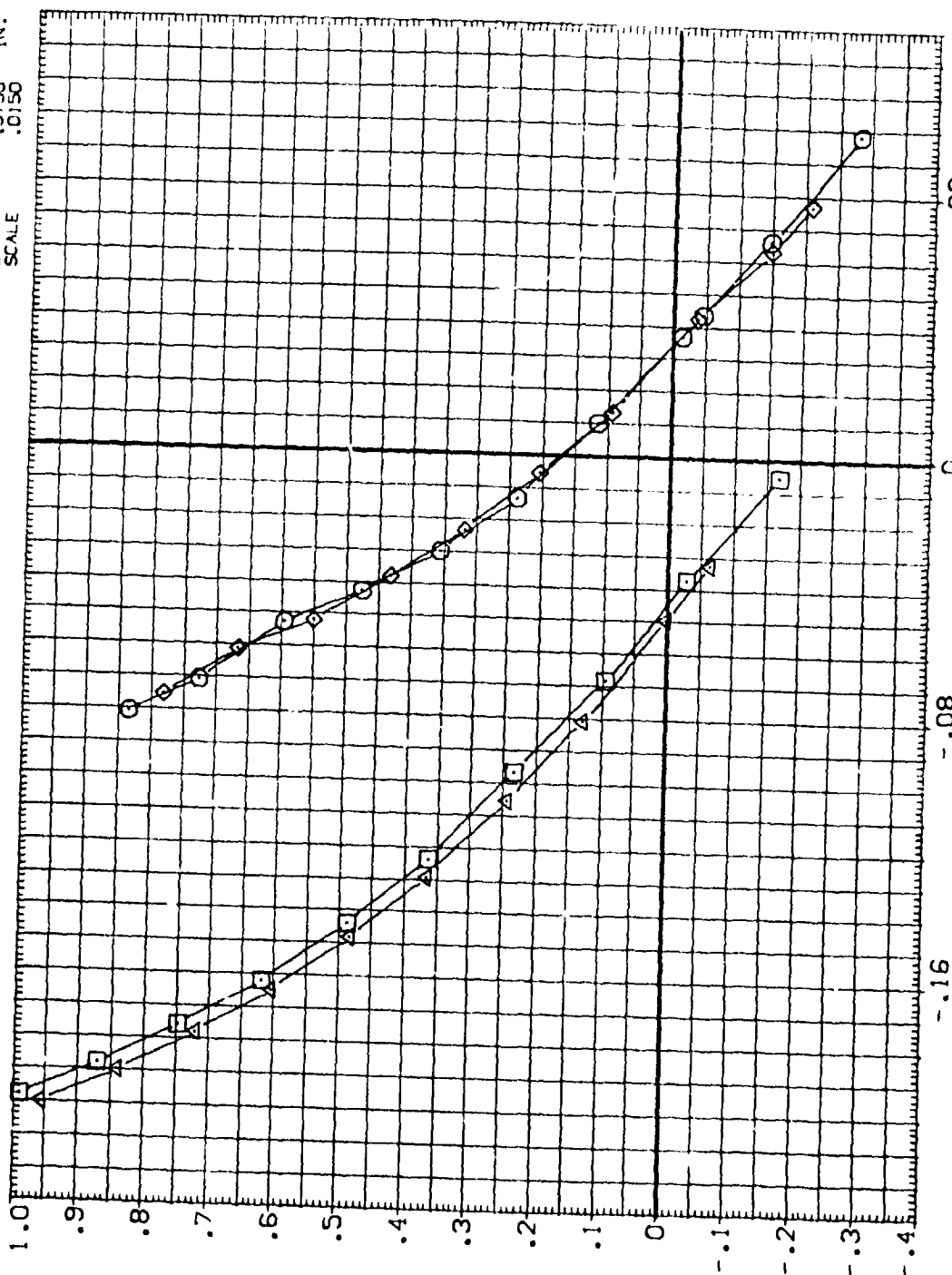
LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

ZMRP .0000 IN.

SCALE -.3750 IN.



BALANCE NORMAL-FORCE COEFFICIENT, CN

FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES
(F)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50. FT.
(CER020)	ARC 66-709 0A59 0A11A-(N24)	.000	.5100	-11.700	LREF .5935 FT.
(1ER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1713 FT.
(1ER020)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.5100	-11.700	XMRP 12.6755 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE 0.150

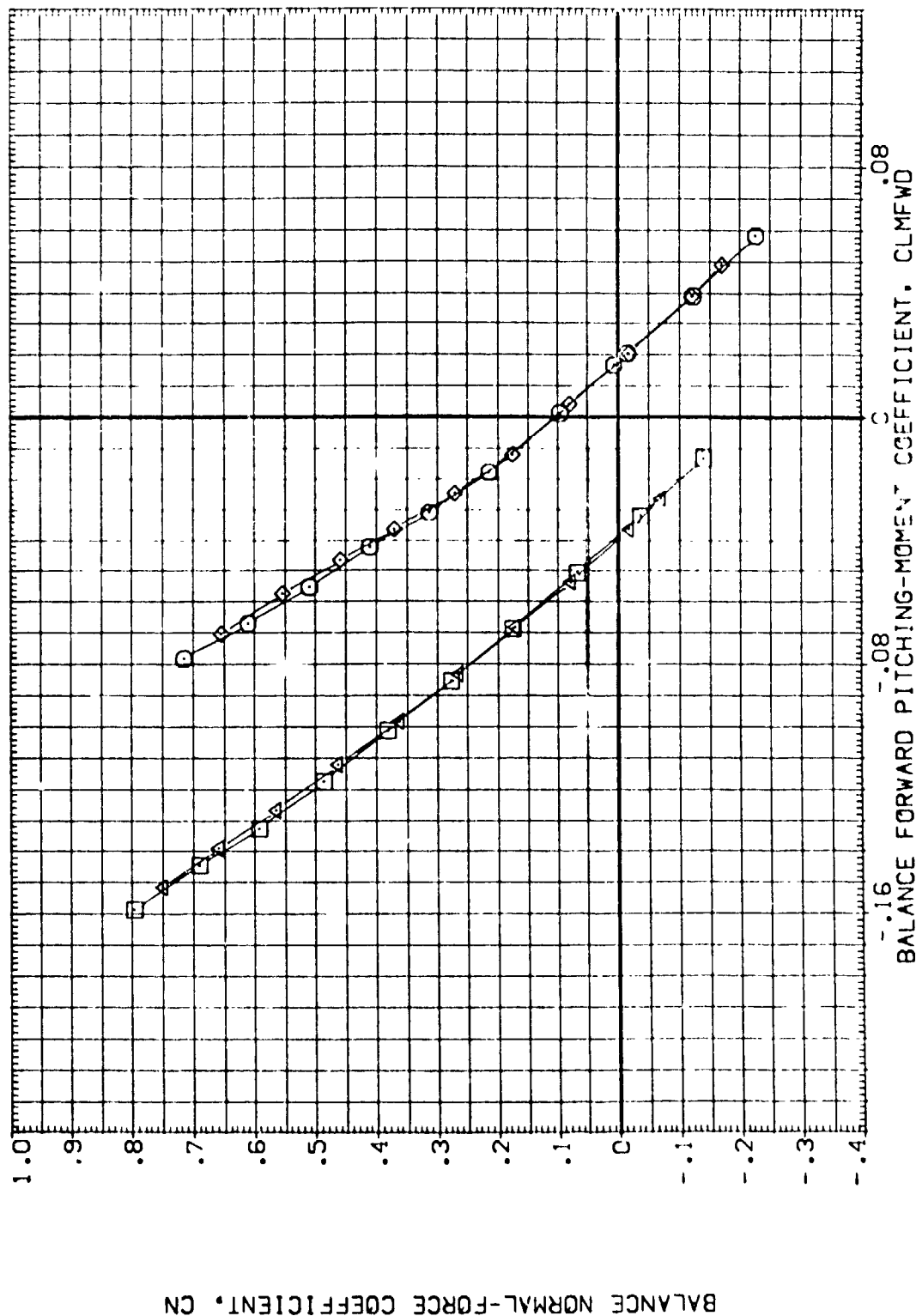


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
0111A-19	ARC 66-709 0A59 0111A-19	.000	.000	-11.700	SREF .6053 SQ.FT.
0111A-20	ARC 66-709 0A59 0111A-20	.000	.000	-11.700	LREF .5935 FT.
0111A-19	ARC 66-709 0A59 0111A-19 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
0111A-20	ARC 66-709 0A59 0111A-20 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0:50

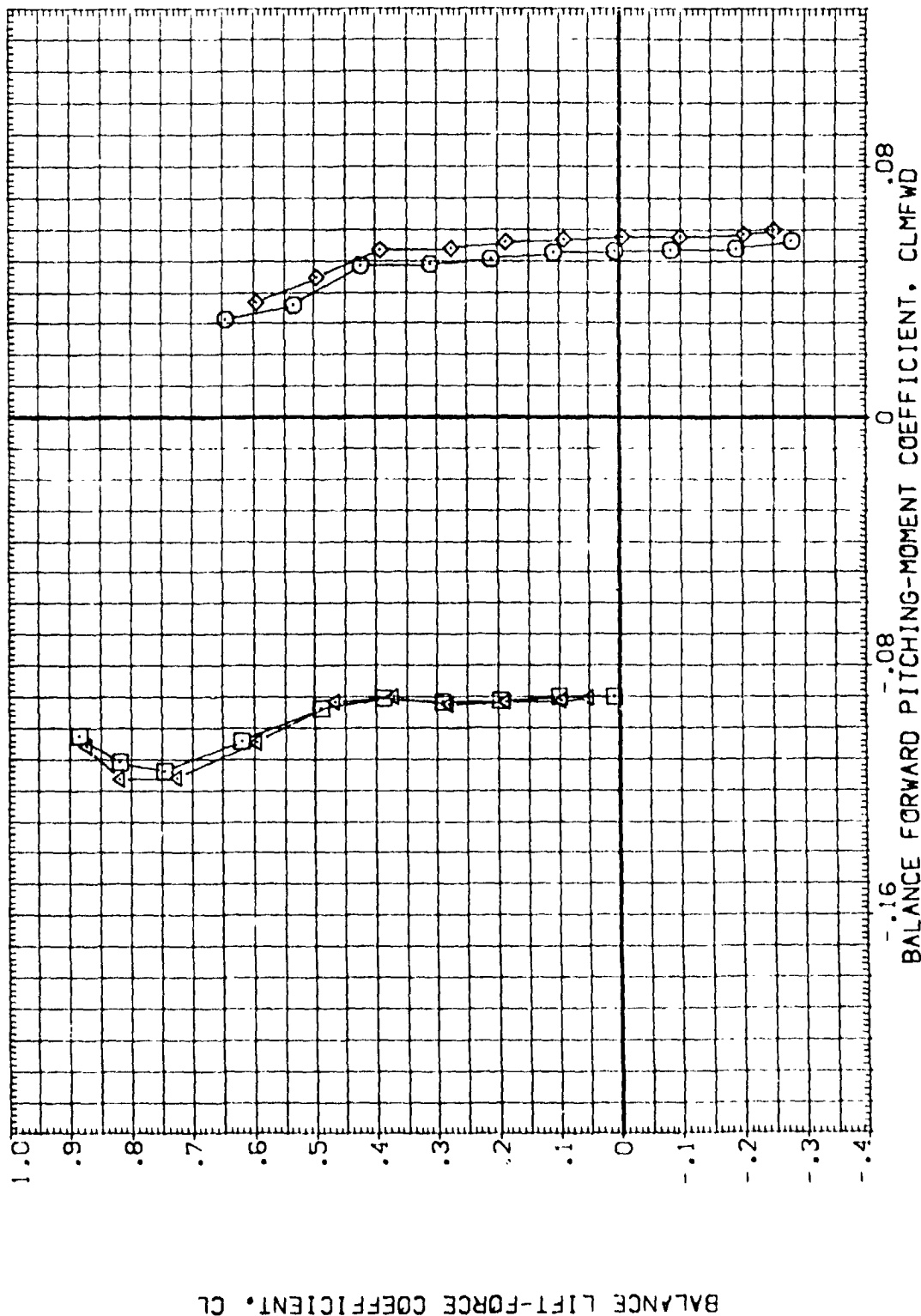


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

CADMAC = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50. FT.
(CER020)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(IER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(IER020)	DATA NOT AVAILABLE	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

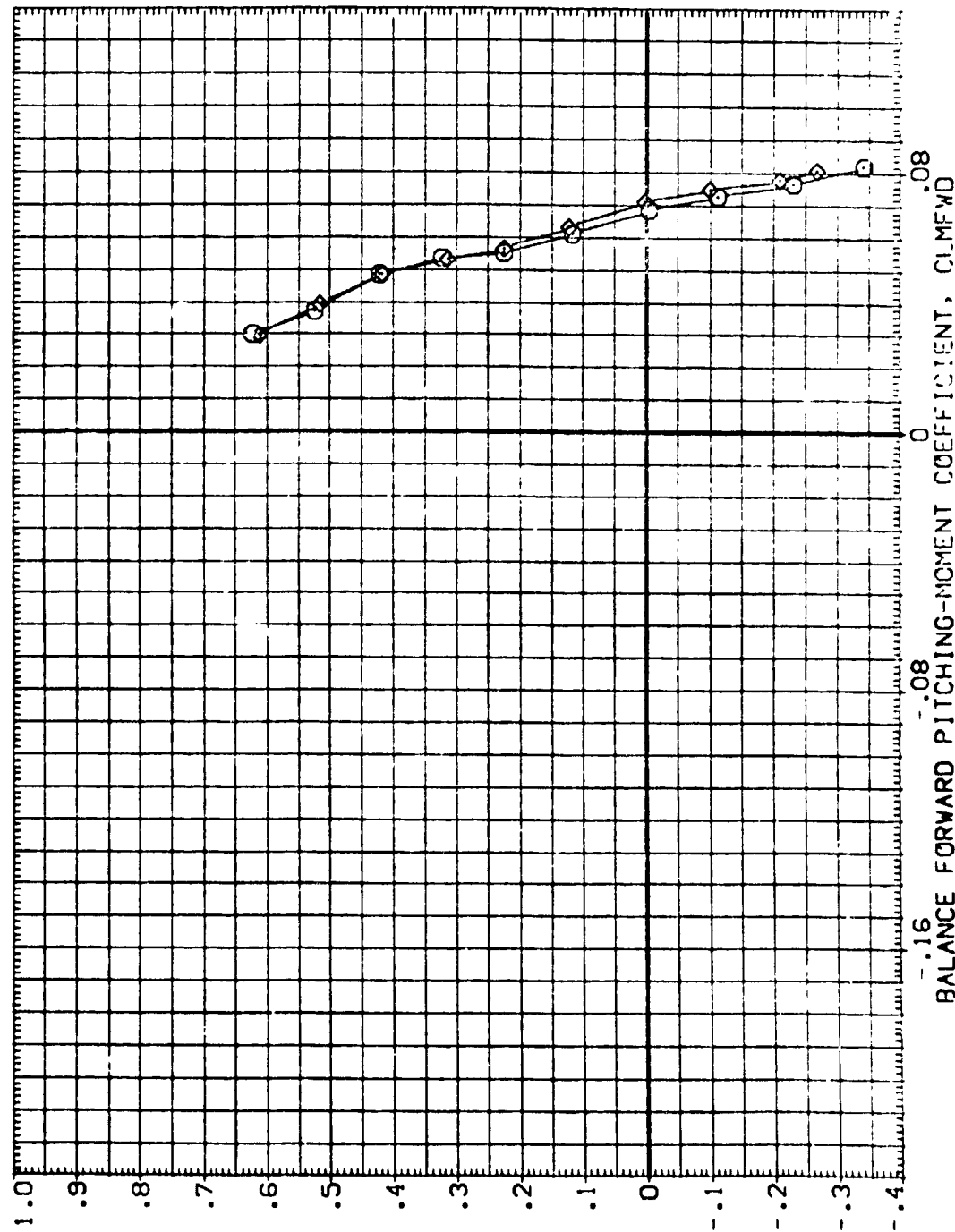


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(COMAC) = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(CER019)	ARC 66-709 DA59 GA11A-(N24)	.000	.000	-11.700	SREF .6253 SQ.FT.
(CER020)	ARC 66-709 DA59 GA11A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(CER019)	ARC 66-709 DA59 GA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 IN.
(CER020)	ARC 66-709 DA59 GA11A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

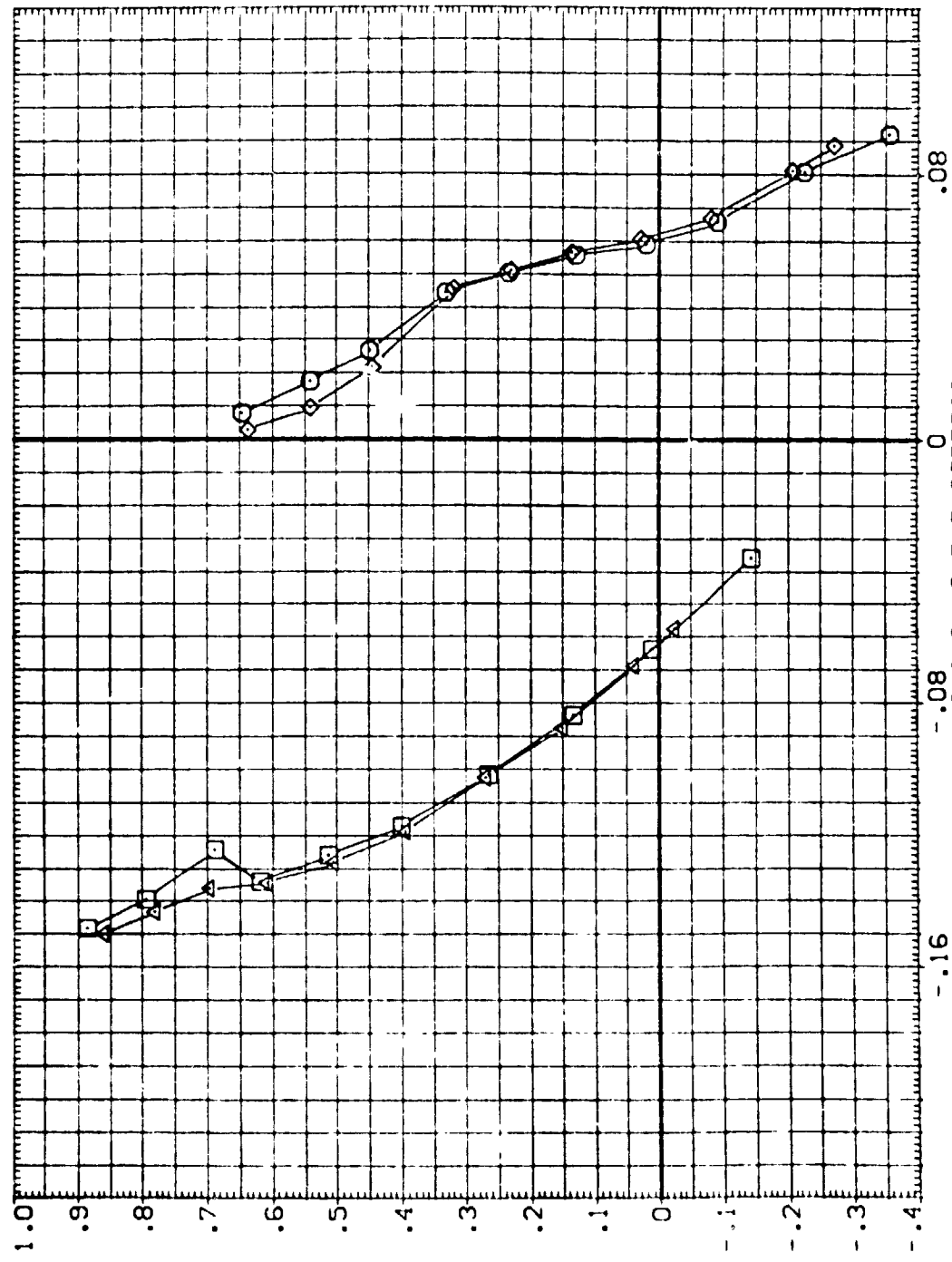


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CERO19}	ARC 66-709 QAS9 Q111A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
{CERO20}	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
{CERO19}	ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
{CERO20}	DATA NOT AVAILABLE	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

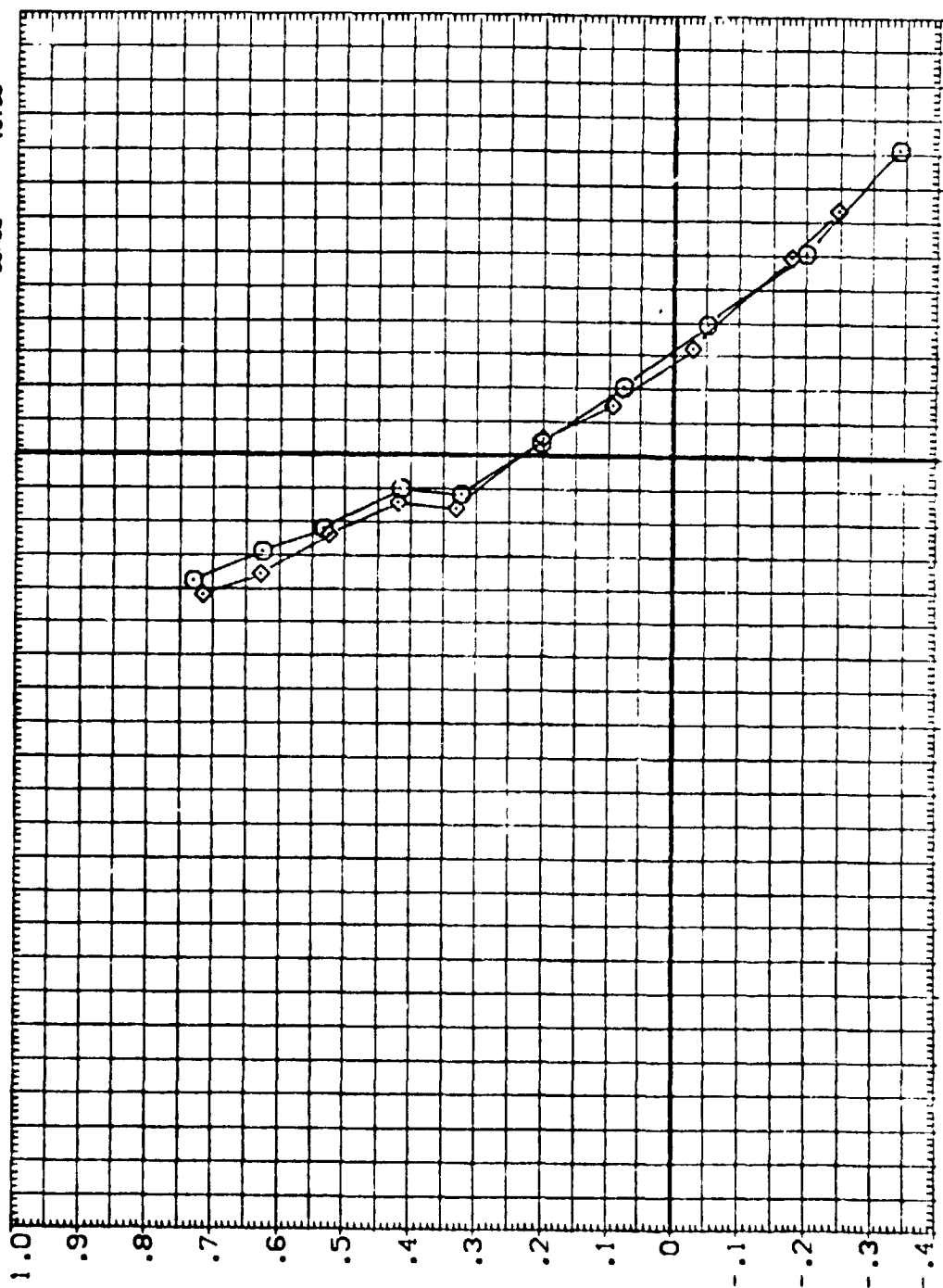


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CERO19) ARC 66-709 OAS9 O11A-(N24)
 (CERO20) ARC 66-709 OAS9 O11A-(N24)
 (CERO19) ARC 66-709 OAS9 O11A-N24 (ADJUSTED FOR TARES)
 (CERO20) ARC 66-709 OAS9 O11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDF LAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

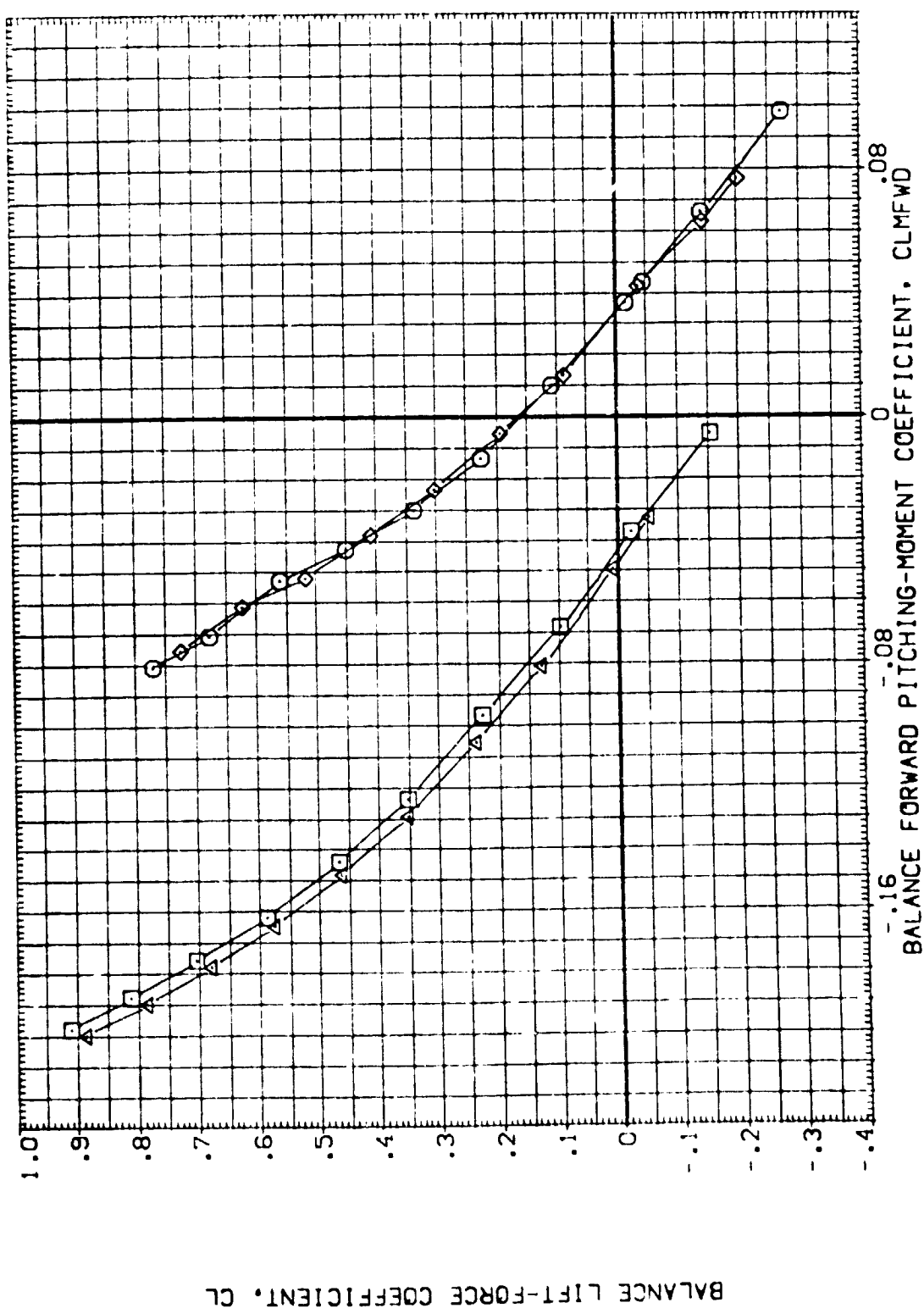


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = 1.20

REFERENCE INFORMATION

SREF	-6053	50. FT.
LREF	-5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA ELEVON BOFLAP

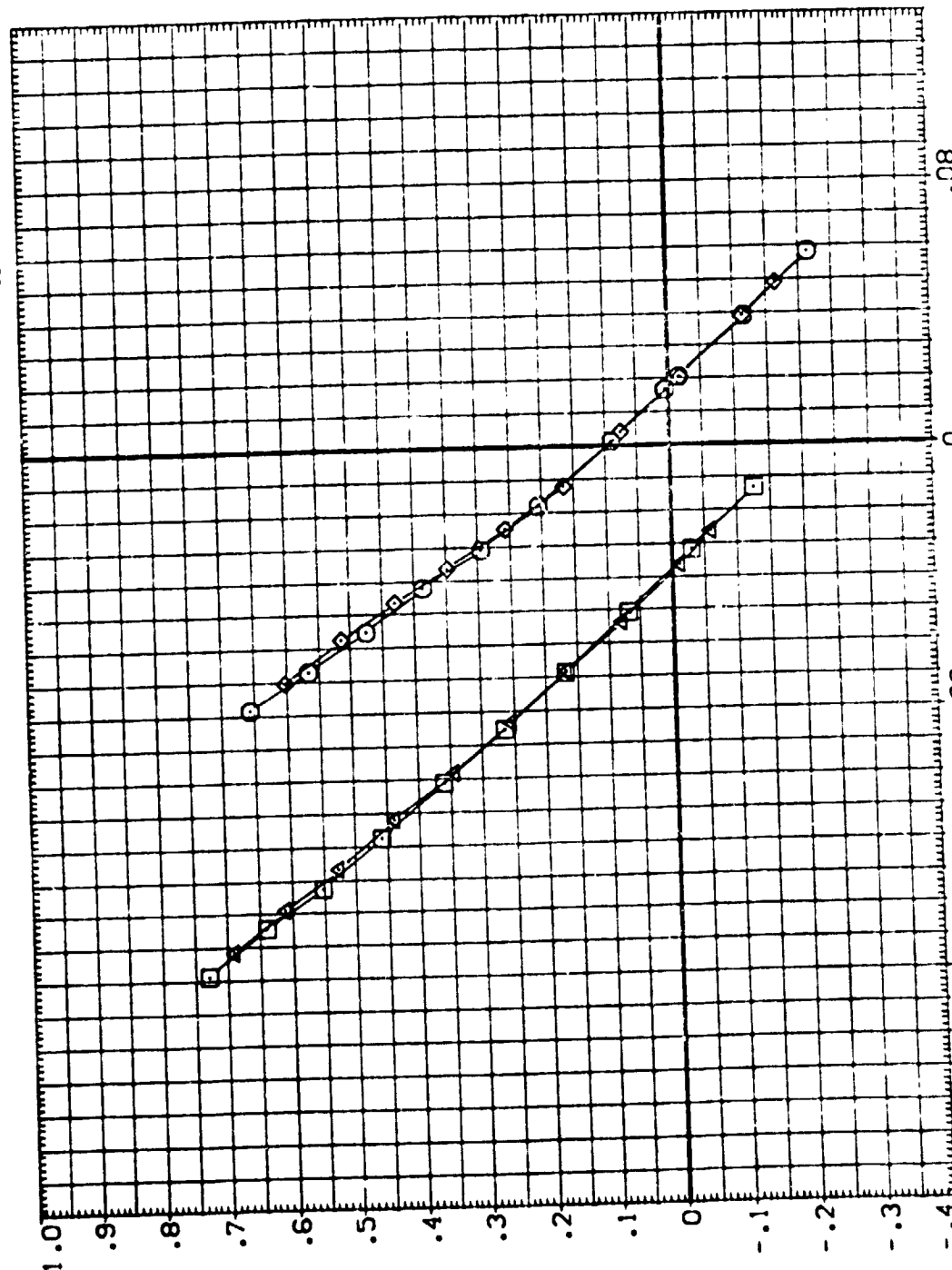
.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

CONFIGURATION DESCRIPTION

ARC 66-709 QAS9	0111A-(N24)
ARC 66-709 QAS9	0111A-(N24)
ARC 66-709 QAS9	0111A-N24 (ADJUSTED FOR TARES)
ARC 66-709 QAS9	0111A-N24 (ADJUSTED FOR TARES)

DATA SET SYMBOL

(CER019)	
(CER020)	
(IER019)	
(IER020)	



BALANCE FORWARD PITCHING-MOMENT COEFFICIENT, $CLMFW$

FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

CGMACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO18)	ARC 68-709 CAS9 0A11A-N24	.000	.000	-11.700	SREF .6053 SQ.F.
(CERO20)	ARC 68-709 CAS9 0A11A-N24	.000	.000	-11.700	LREF .5935 F.
(CERO19)	ARC 68-709 CAS9 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 F.
(CERO20)	ARC 68-709 CAS9 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

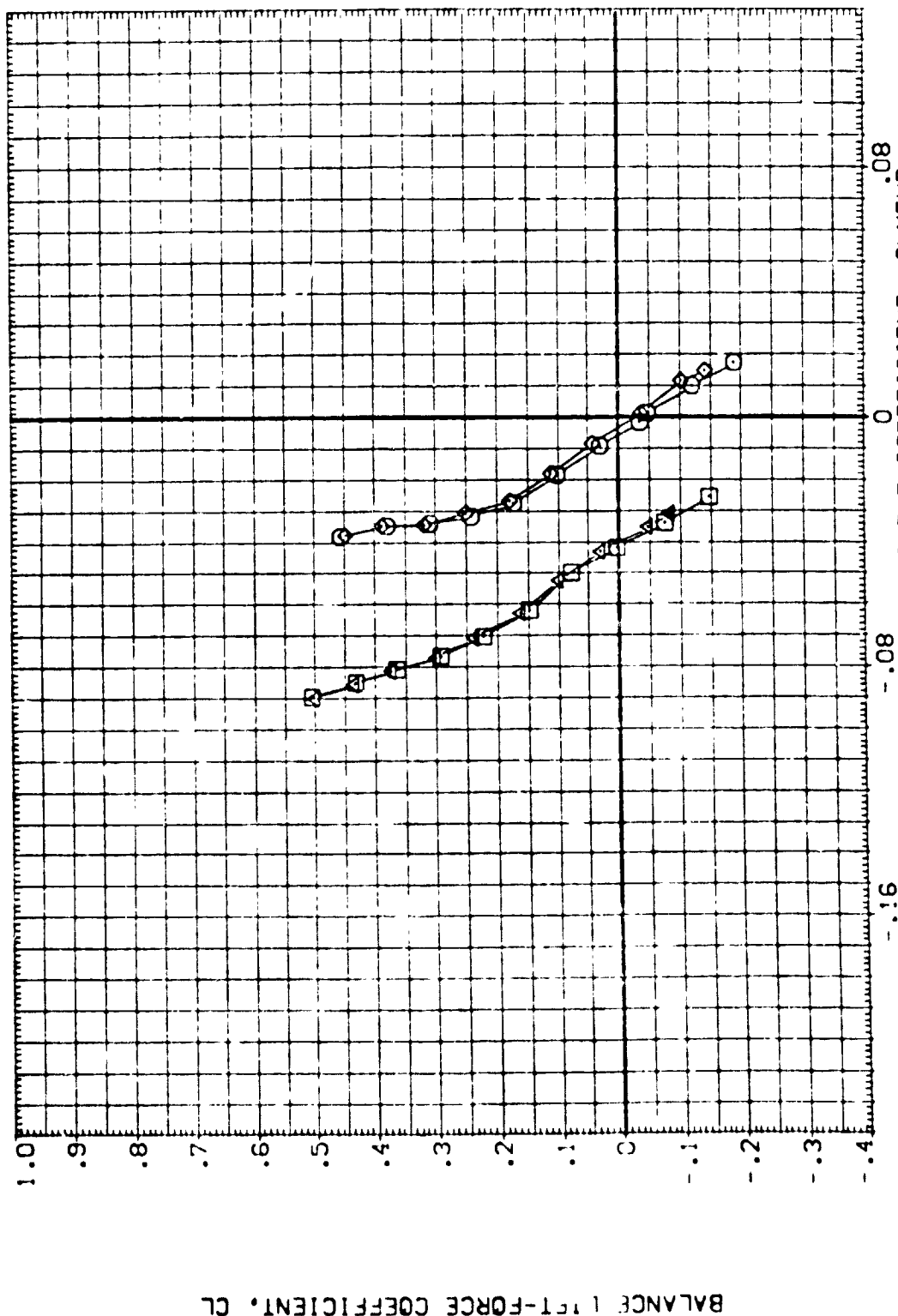


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 CAS9 O111A-N24	.000	.000	-.700	SREF .6053 SC.FT.
(CERO20)	ARC 66-709 CAS9 O111A-N24	.000	.500	-.700	LREF .5935 FT.
(CERO19)	ARC 66-709 CAS9 O111A-N24 (ADJUSTED FOR TARES)	.000	.000	-.700	BREF 1.1710 FT. IN.
(CERO20)	ARC 66-709 CAS9 O111A-N24 (ADJUSTED FOR TARES)	.000	.500	-.700	XMRP 12.6755 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

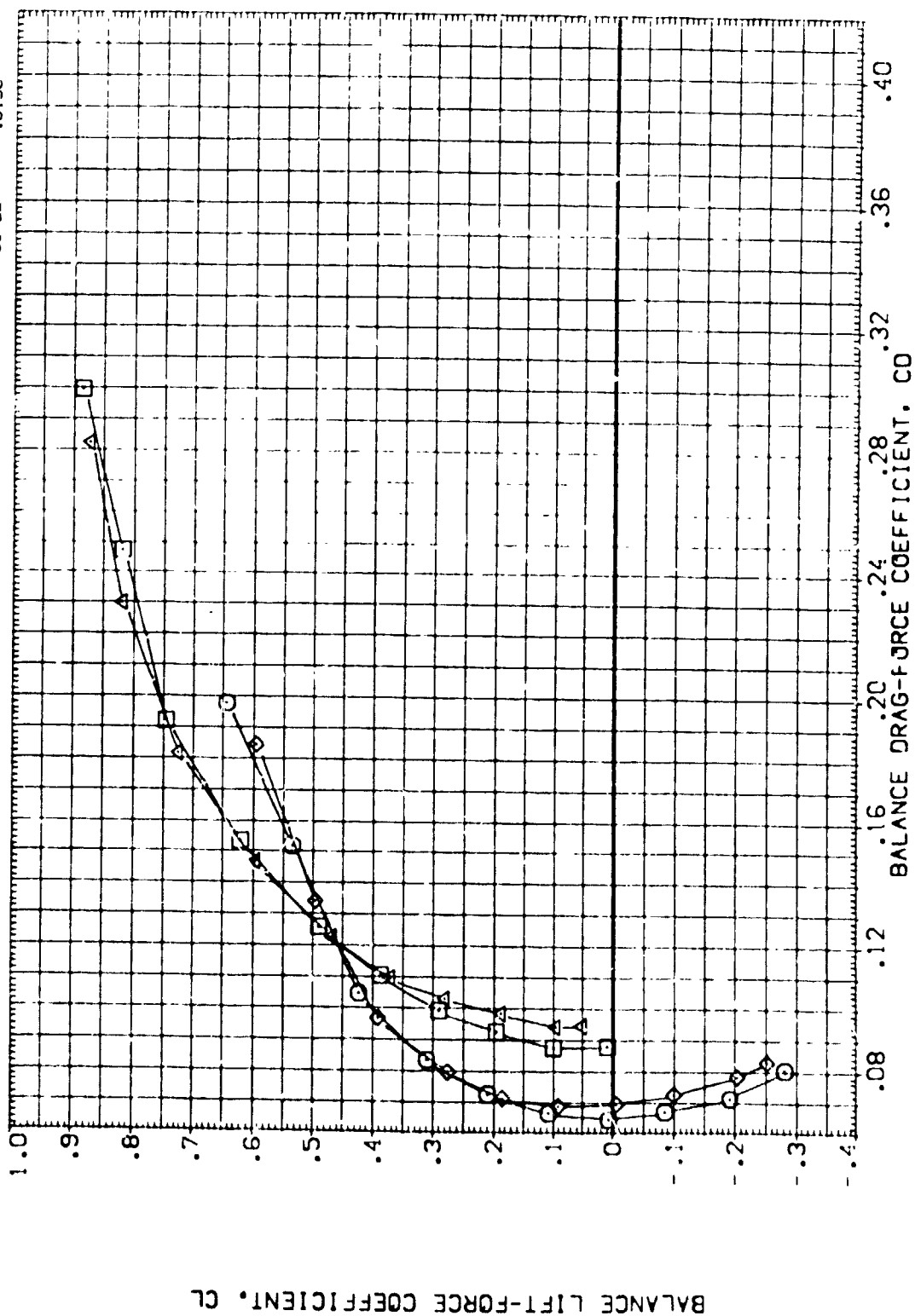


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(M)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 DAS9 0111A-(N24)	.000	.000	-11.700	SRC .6053 SQ.FT.
(CER020)	ARC 66-709 DAS9 0111A-(P24)	.000	.15000	-11.700	LREF .5935 FT.
(1ER019)	ARC 66-709 DAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(1ER020)	ARC 66-709 DAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.15000	-11.700	XMREF 12.6255 IN.
					YMREF .0000 IN.
					ZMREF -.3750 IN.
					SCALE .0150

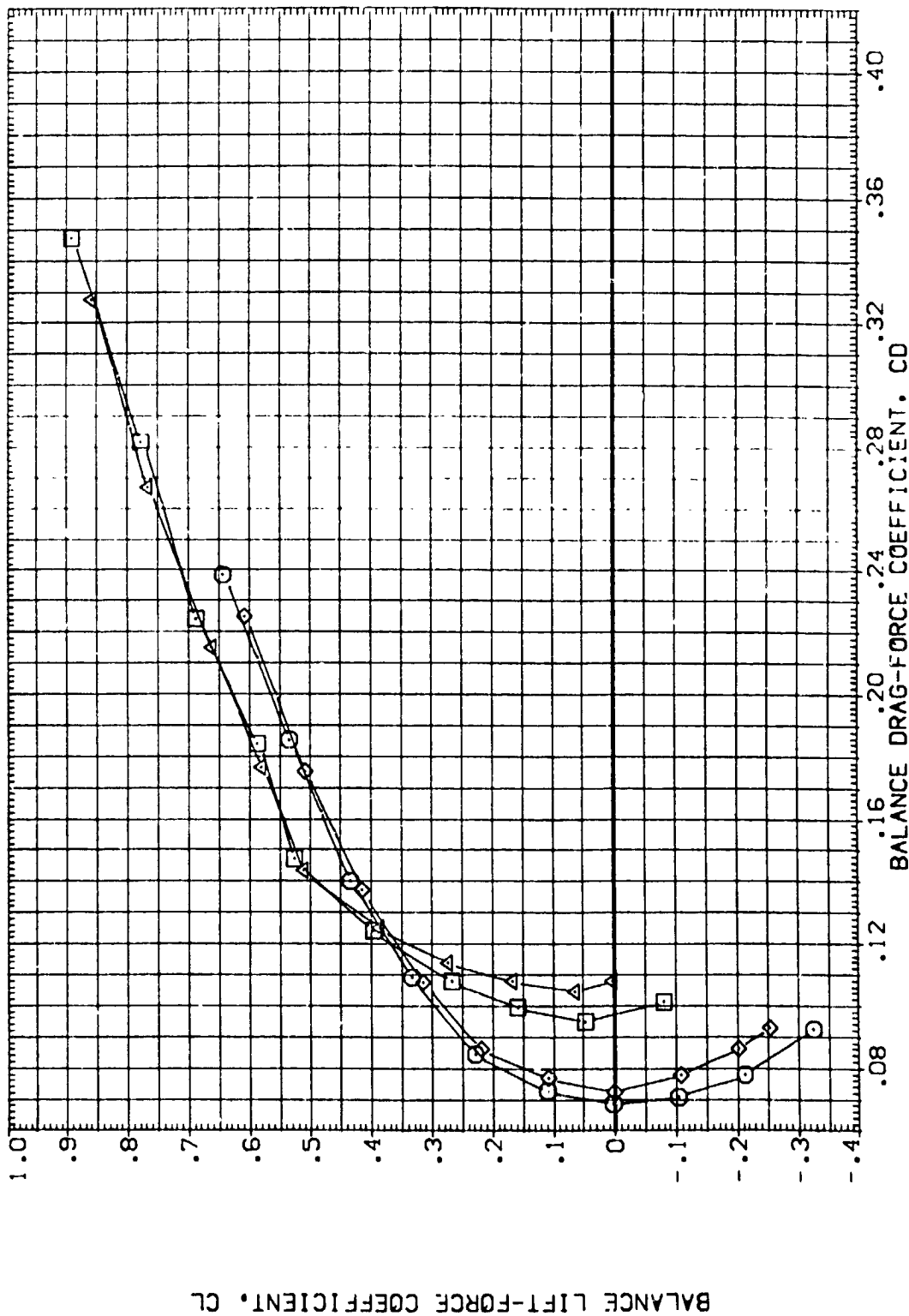


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER018)	ARC 66-709 OA59 OA11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER020)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(CER015)	ARC 66-709 OA59 OA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 IN.
(CER020)	DATA NOT AVAILABLE	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

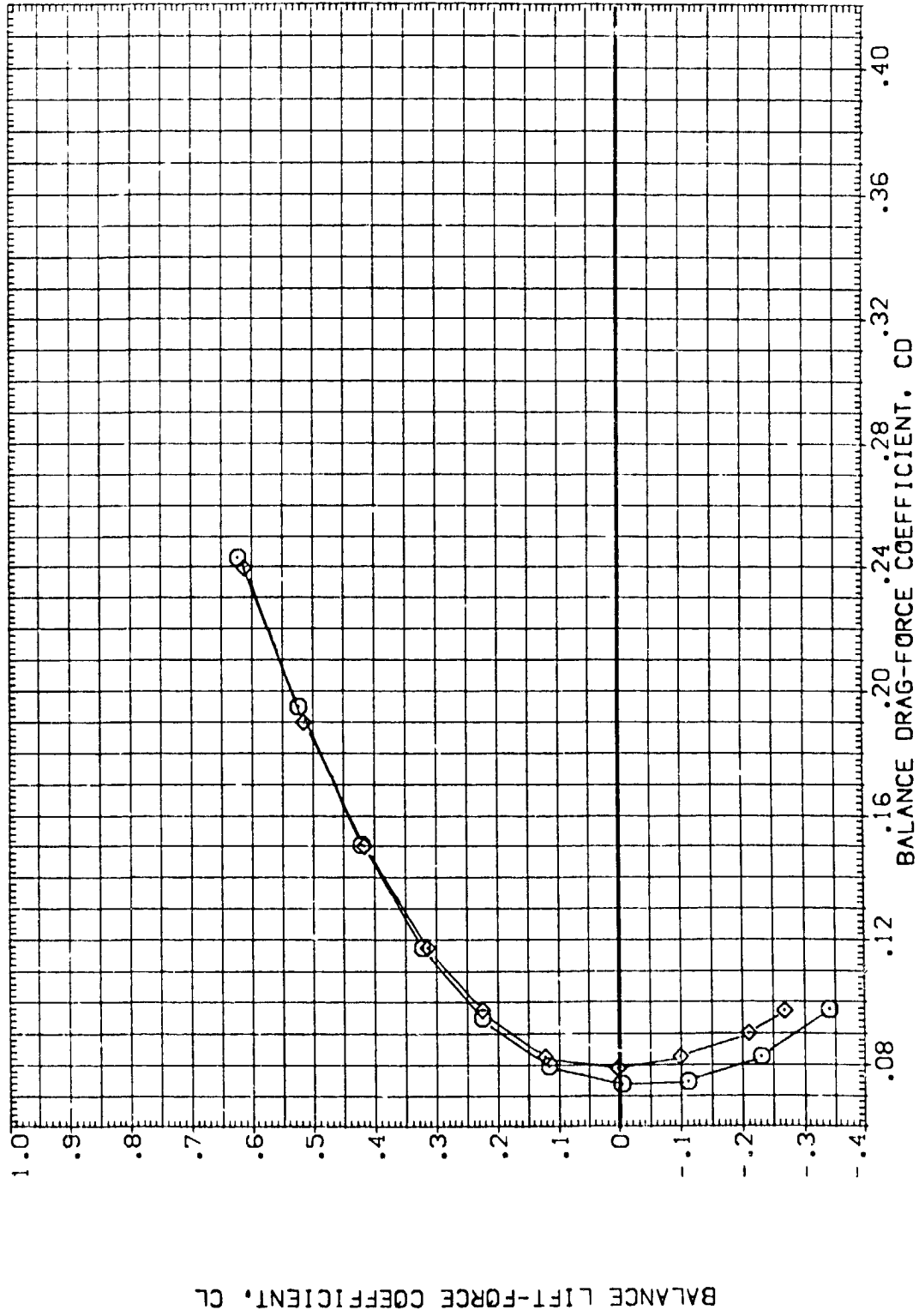


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CERO19)	ARC 66-709 0A59 0A11A-(N24)
(CERO20)	ARC 66-709 0A59 0A11A-(N24)
(TIERO19)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
(TIERO20)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDF LAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

REFERENCE INFORMATION

SREF	.6053	50. FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

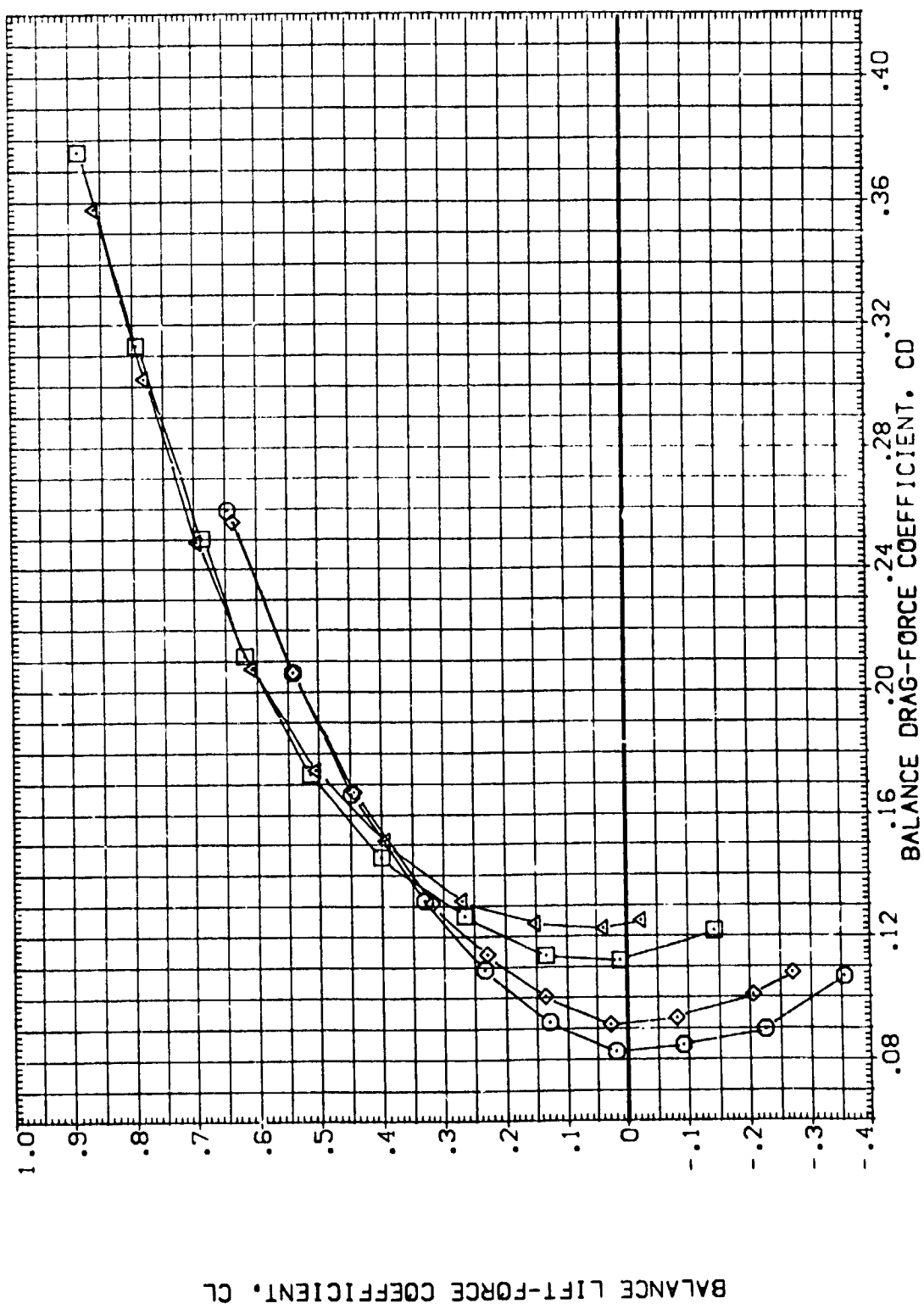


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(O)MACH = .90

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	FT.
YMRP	12.6255	IN.
ZMRP	.0000	IN.
SCALE	-.3750	IN.

BETA

ELEVON	BOFLAP
.000	-.11.700
.000	-.11.700
.000	-.11.700
.000	-.11.700

DATA SET SYMBOL

CONF IGURATION DESCRIPTION
ARC 66-709 OAS9 D11A-(N24)
DATA NOT AVAILABLE
ARC 66-709 OAS9 D11A-N24 (ADJUSTED FOR TARES)
DATA NOT AVAILABLE

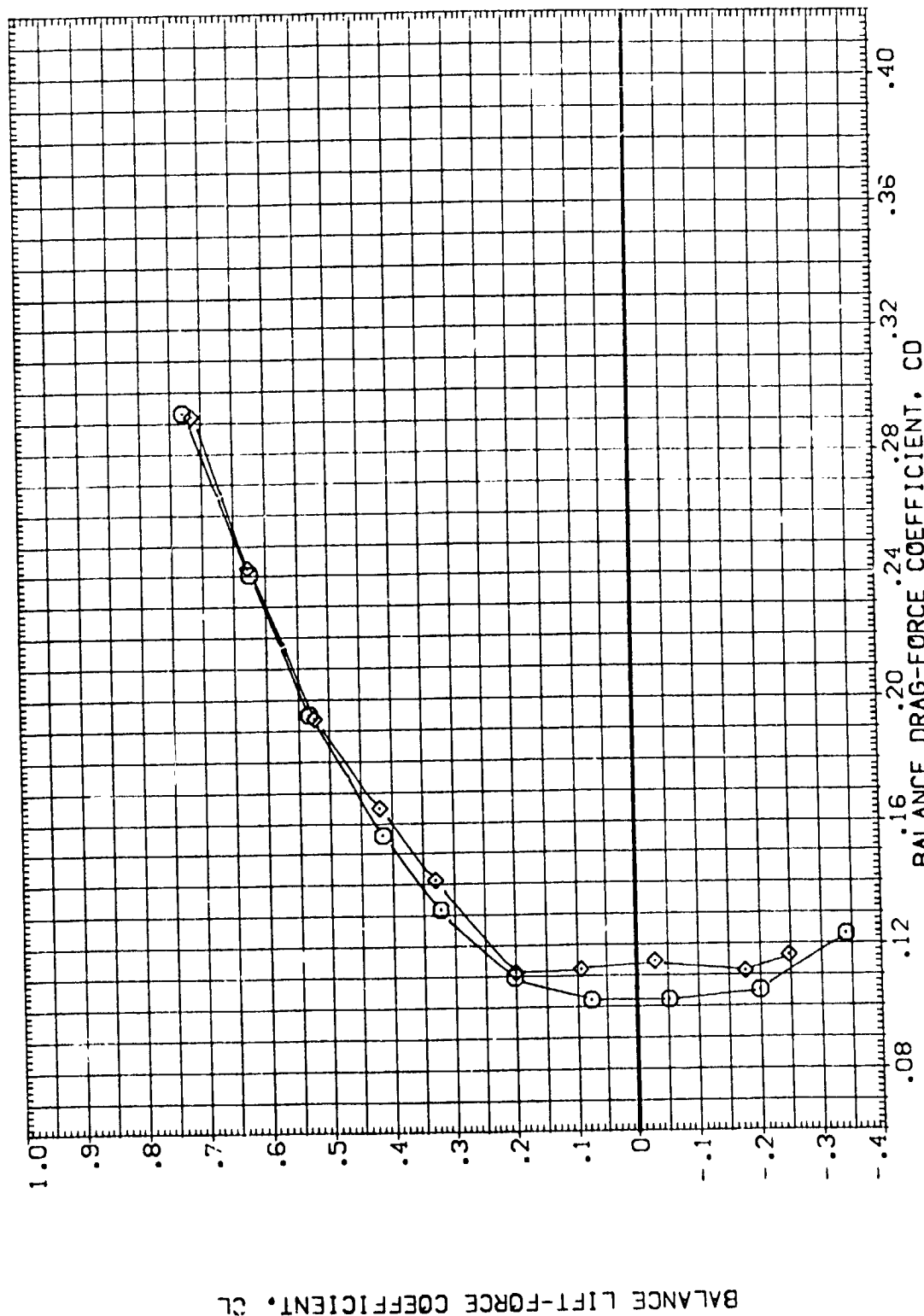


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(E)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[CER019]	ARC 66-709 DASS 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
[CER020]	ARC 66-709 DASS 0111A-(N24)	.000	.000	-11.700	LREF .5935 FT.
[CER019]	ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT. IN.
[CER020]	ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 2.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

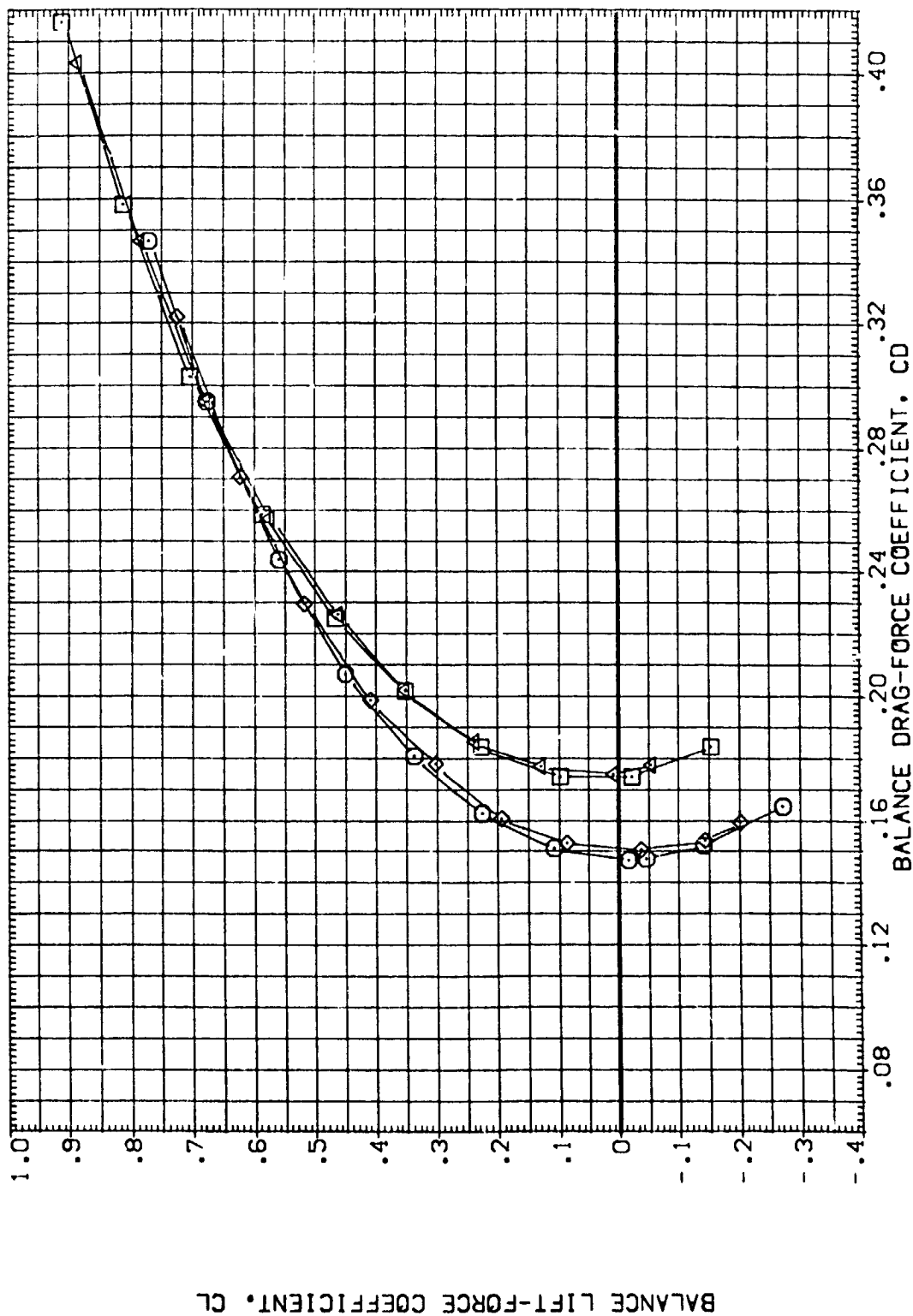


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES
(F)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER019)	ARC 66-709 0A59 0A11A-(N24)
(CER020)	ARC 66-709 0A59 0A11A-(N24)
(IFR019)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)
(IFR020)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

REFERENCE INFORMATION

SREF	.6053	SQ.FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

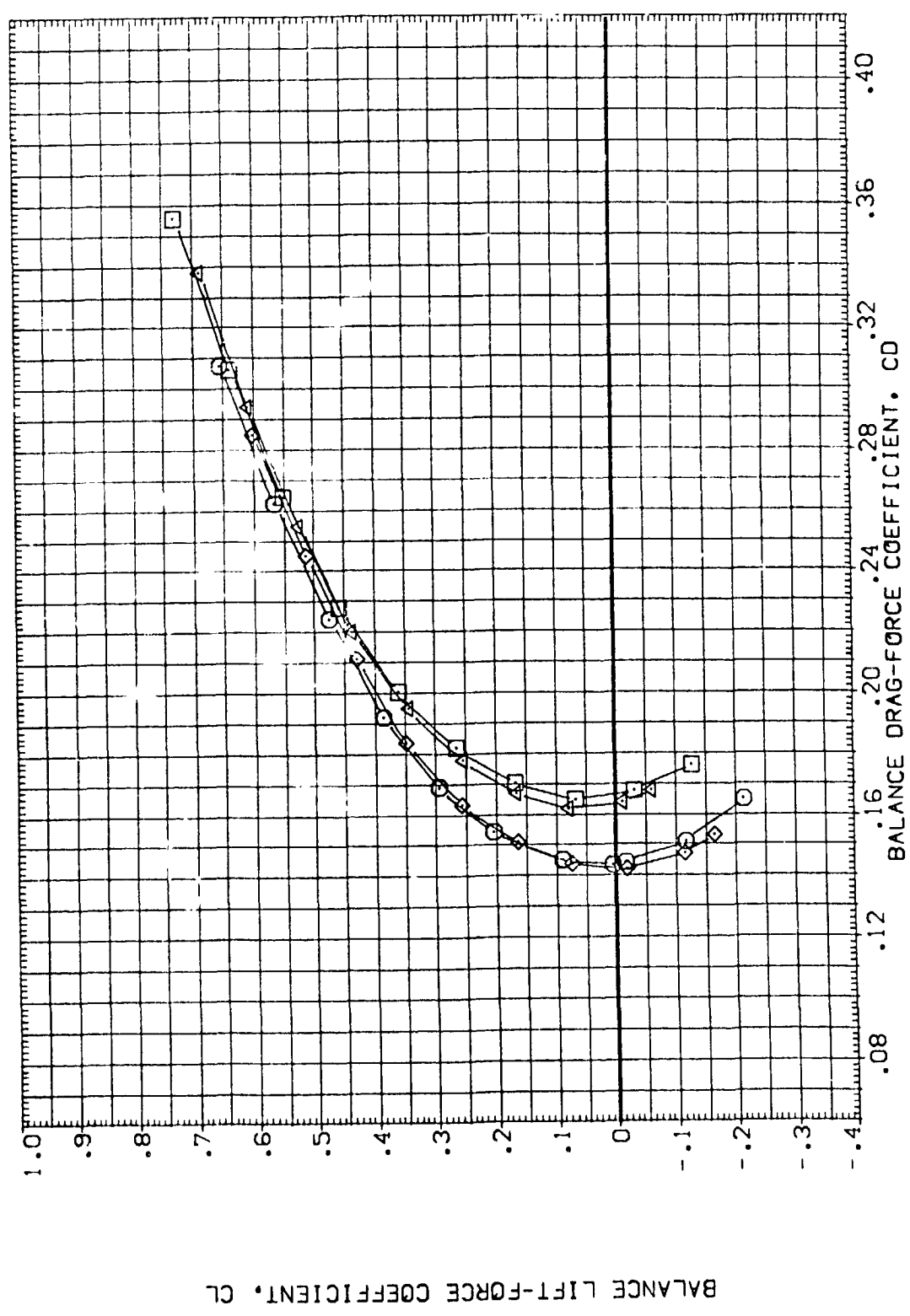


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 DASS D11A-N24	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER020)	ARC 66-709 DASS D11A-N24	.000	.000	-11.700	LREF .5935 FT.
(CER019)	ARC 66-709 DASS D11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(CER020)	ARC 66-709 DASS D11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMPP 12.6255 IN.
					YMPP .0000 IN.
					ZMPP -.3750 IN.
					SCALE .0150

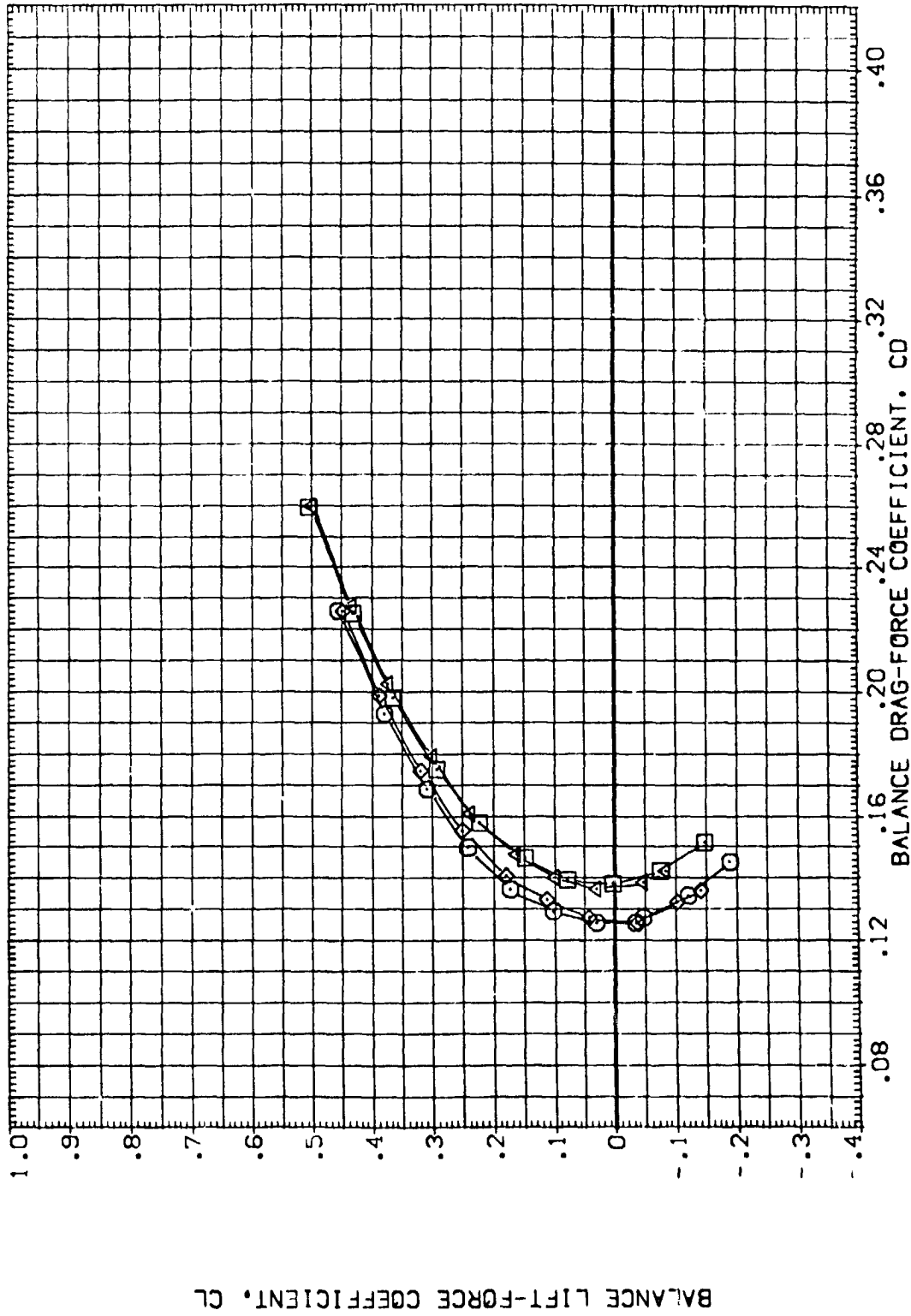


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER020)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	LREF .5335 FT.
(3ER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(3ER020)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

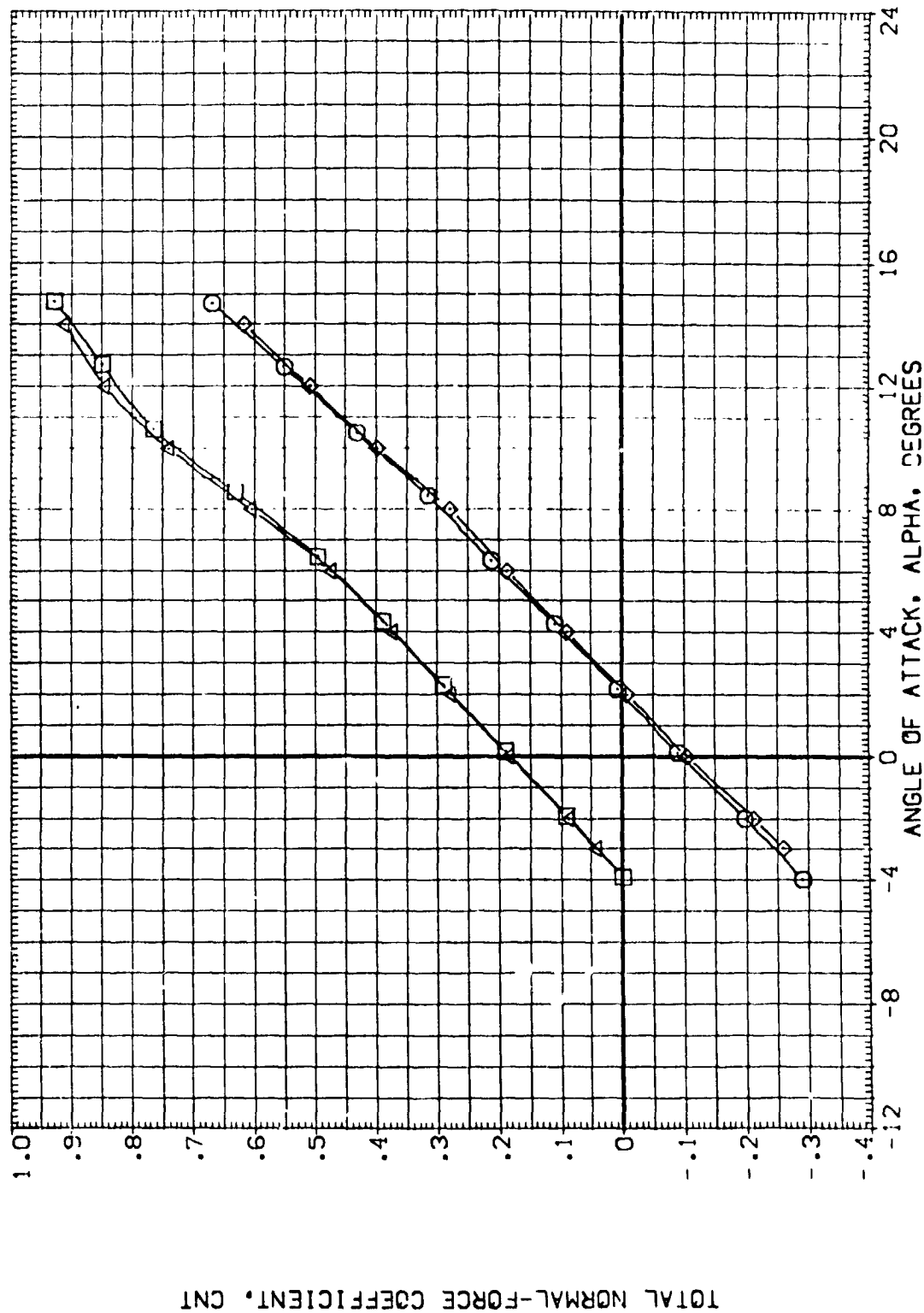


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GERO19) ARC 66-709 DAS9 011A-(N24)
 (GERO20) ARC 66-709 DAS9 011A-(N24)
 (GERO19) ARC 66-709 DAS9 011A-N24 (ADJUSTED FOR TARES)
 (GERO20) ARC 66-709 DAS9 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 F.
 BRFF 1.1710 F.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

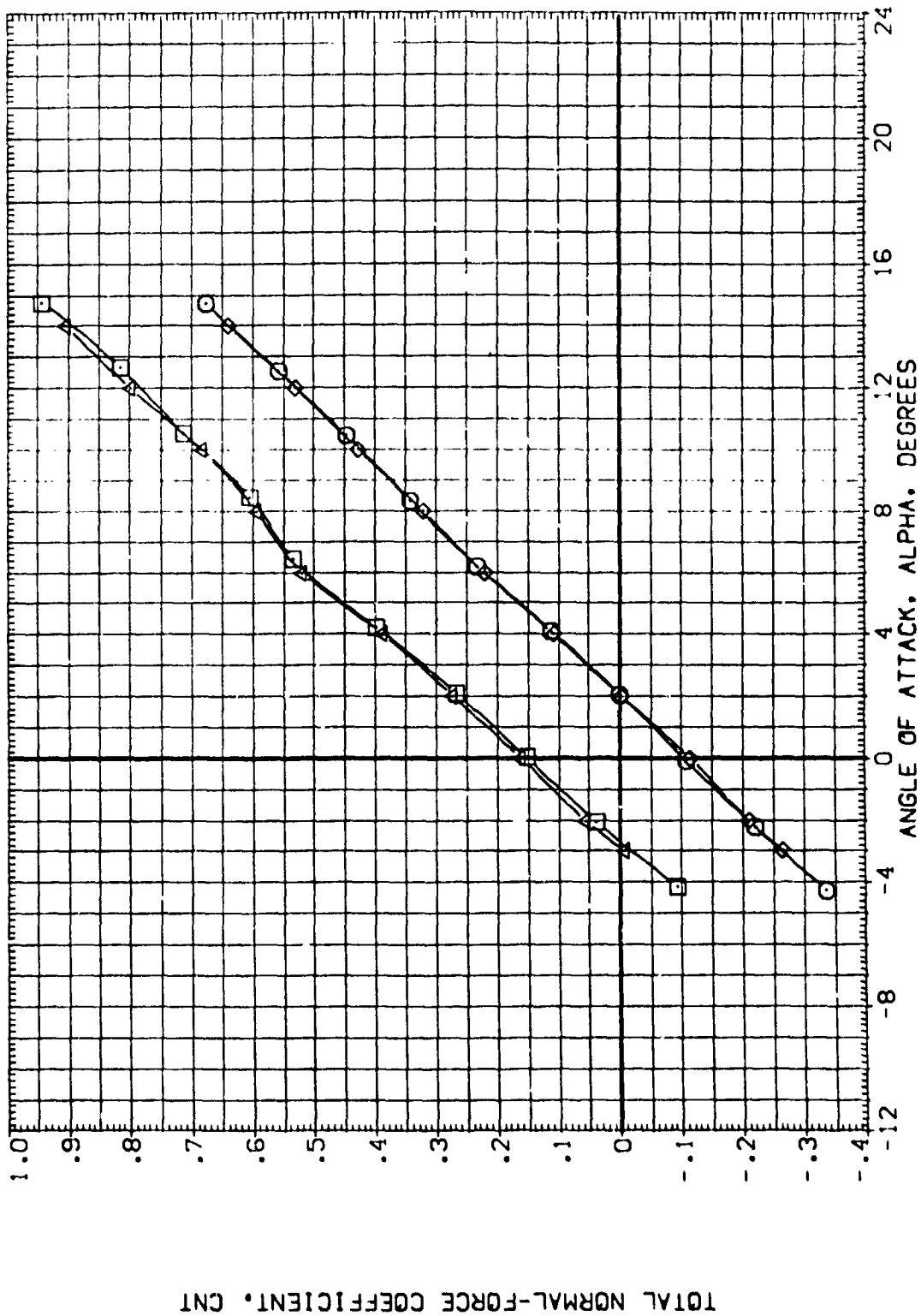


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .80

CONFIGURATION DESCRIPTION
ARC 66-709 0A59 0A11A-(N24)

BETA	ELEVON	BOFLAP
.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

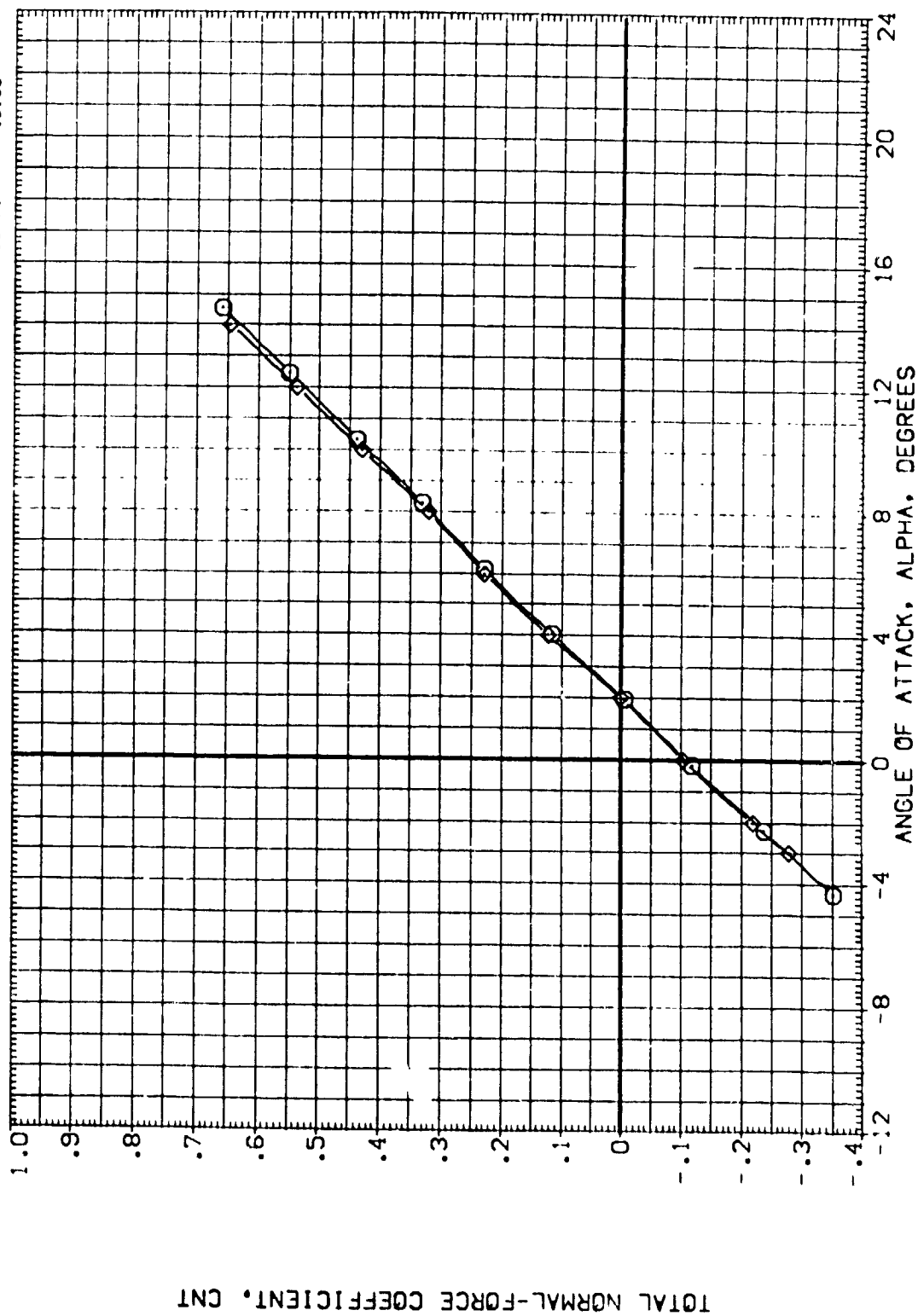


FIG. 13. ELEVON EFFECTIVENESS WITH/WITHOUT TARES

[[C]MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GER019) ARC 66-709 0A59 0A11A-(N24)
 (GER020) ARC 66-709 0A59 0A11A-(N24)
 (GER019) ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)
 (GER020) ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

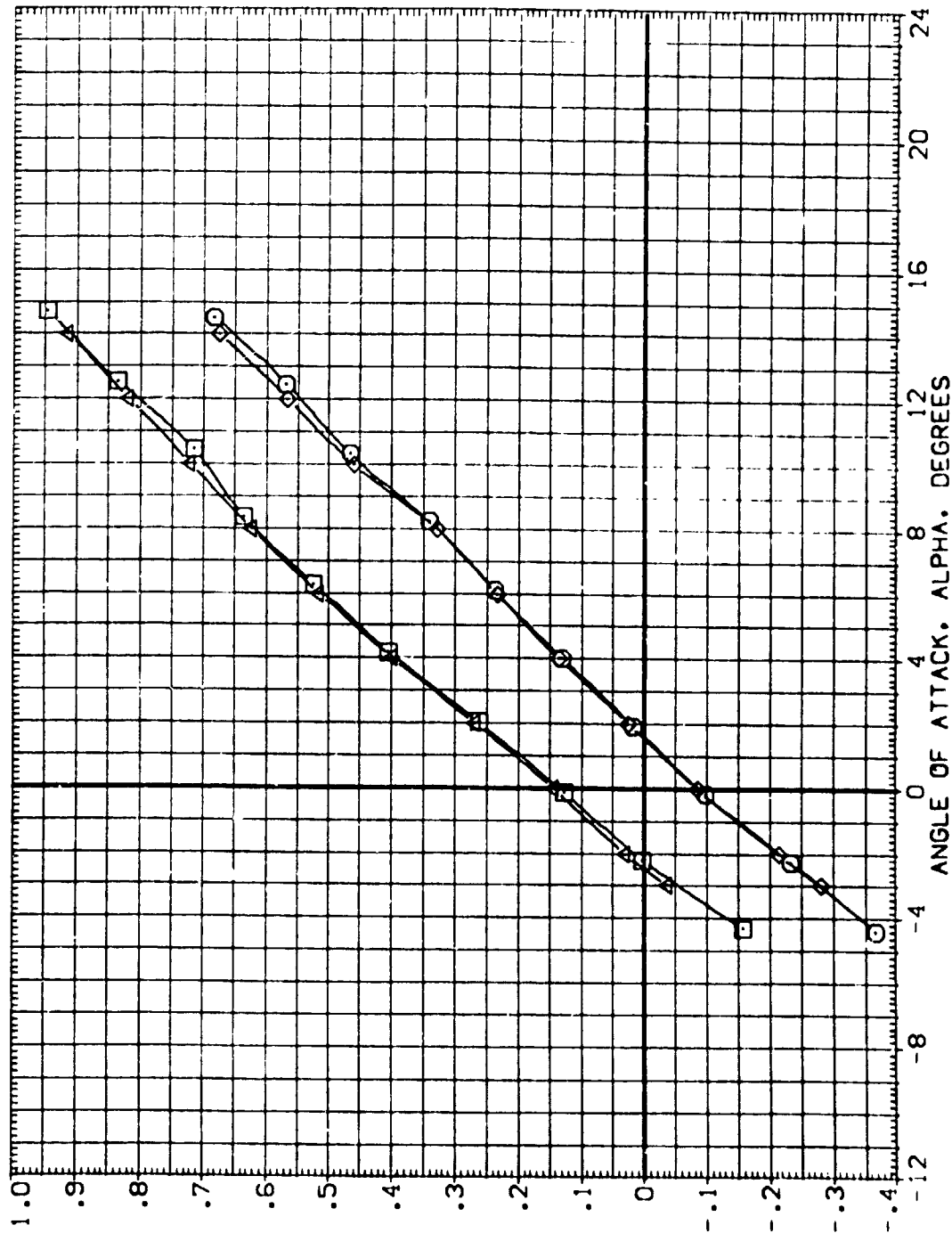


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(D)MACH = .90

REFERENCE INFORMATION
 SREF 6053 50 FT.
 LREF 5936 FT.
 BREF 1.7110 FT.
 XMRP 12.625 IN.
 YMRP .000 IN.
 ZMRP .3750 IN.
 SCALE .0150

BETA ELEVON BDF LAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (ZERO19) ARC 66-709 0A59 0A11A-(N24)
 (ZERO20) DATA NOT AVAILABLE
 (ZERO19) ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)
 (ZERO20) DATA NOT AVAILABLE

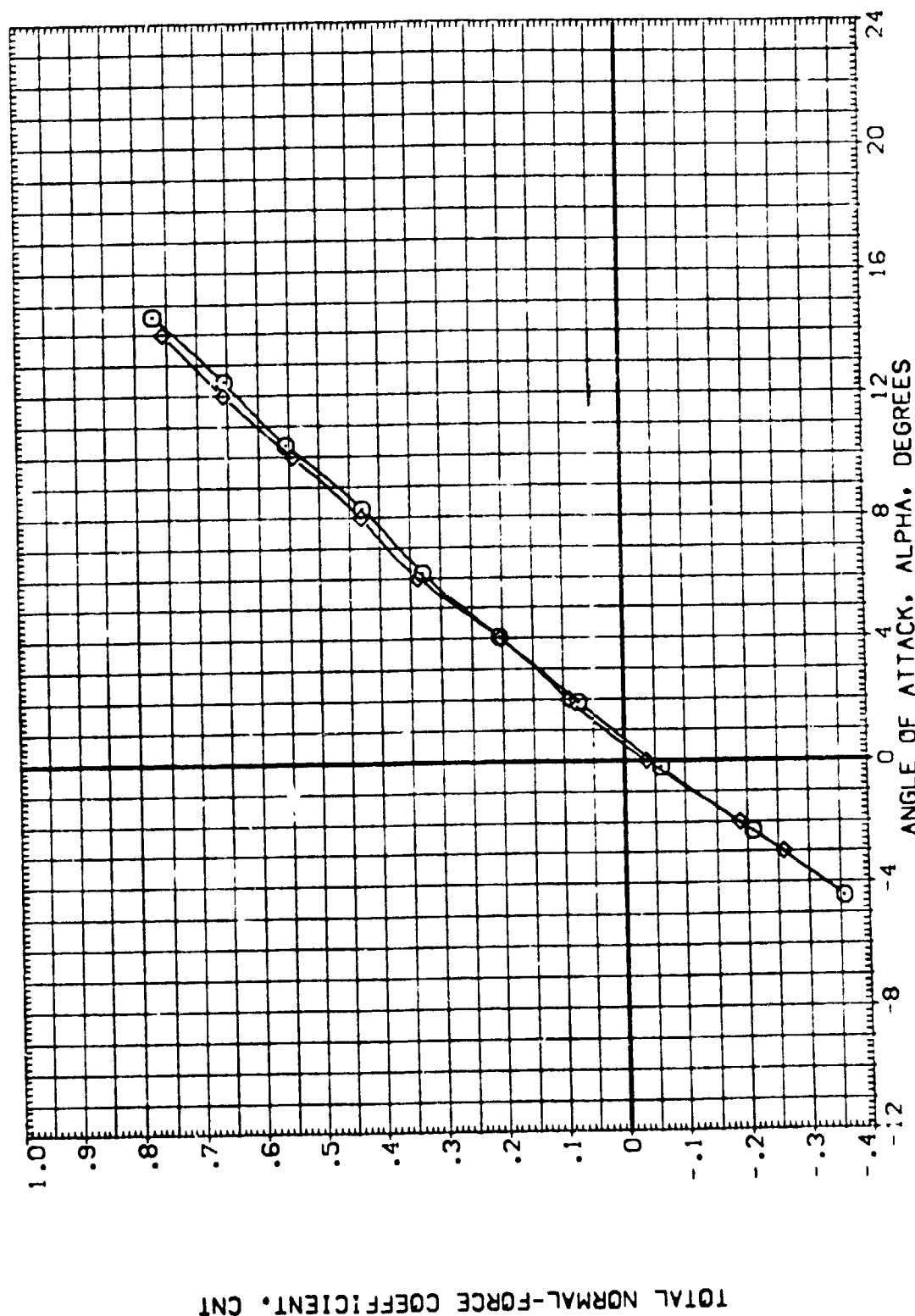


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(E)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (ZERO19) ARC 66-709 0A59 0A11A-(N24)
 (ZERO20) ARC 66-709 0A59 0A11A-(N24)
 (ZERO19) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
 (ZERO20) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5936 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

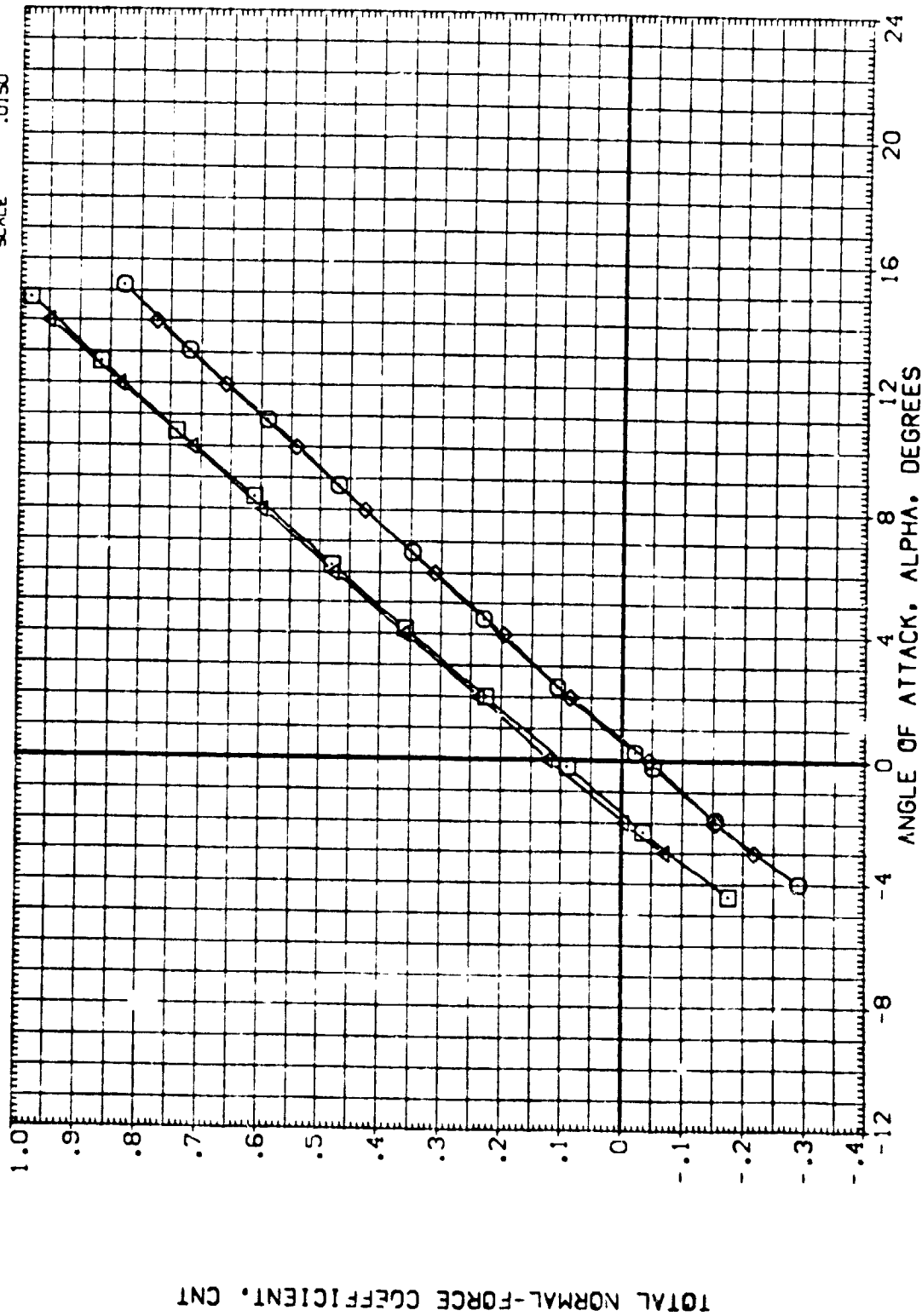


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = 1.20

REFERENCE INFORMATION

SREF	.6053	SQ. FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XREF	12.6255	IN.
YREF	.0000	IN.
ZREF	-.3750	IN.
SCALE	.0150	

BETA ELEVON BDF LAP

BETA	.000	.000	.000
ELEVON	.000	.000	.000
BDF	.000	.000	.000
LAP	.000	.000	.000

CONFIGURATION DESCRIPTION

ARC 66-709	CA59	CA11A-(N24)
ARC 66-709	CA59	CA11A-(N24)
ARC 66-709	CA59	CA11A-N24 (ADJUSTED FOR TARES)
ARC 66-709	CA59	CA11A-N24 (ADJUSTED FOR TARES)

DATA SET SYMBOL

CE RC:19	
CE RC:20	
CE RC:19	
CE RC:20	

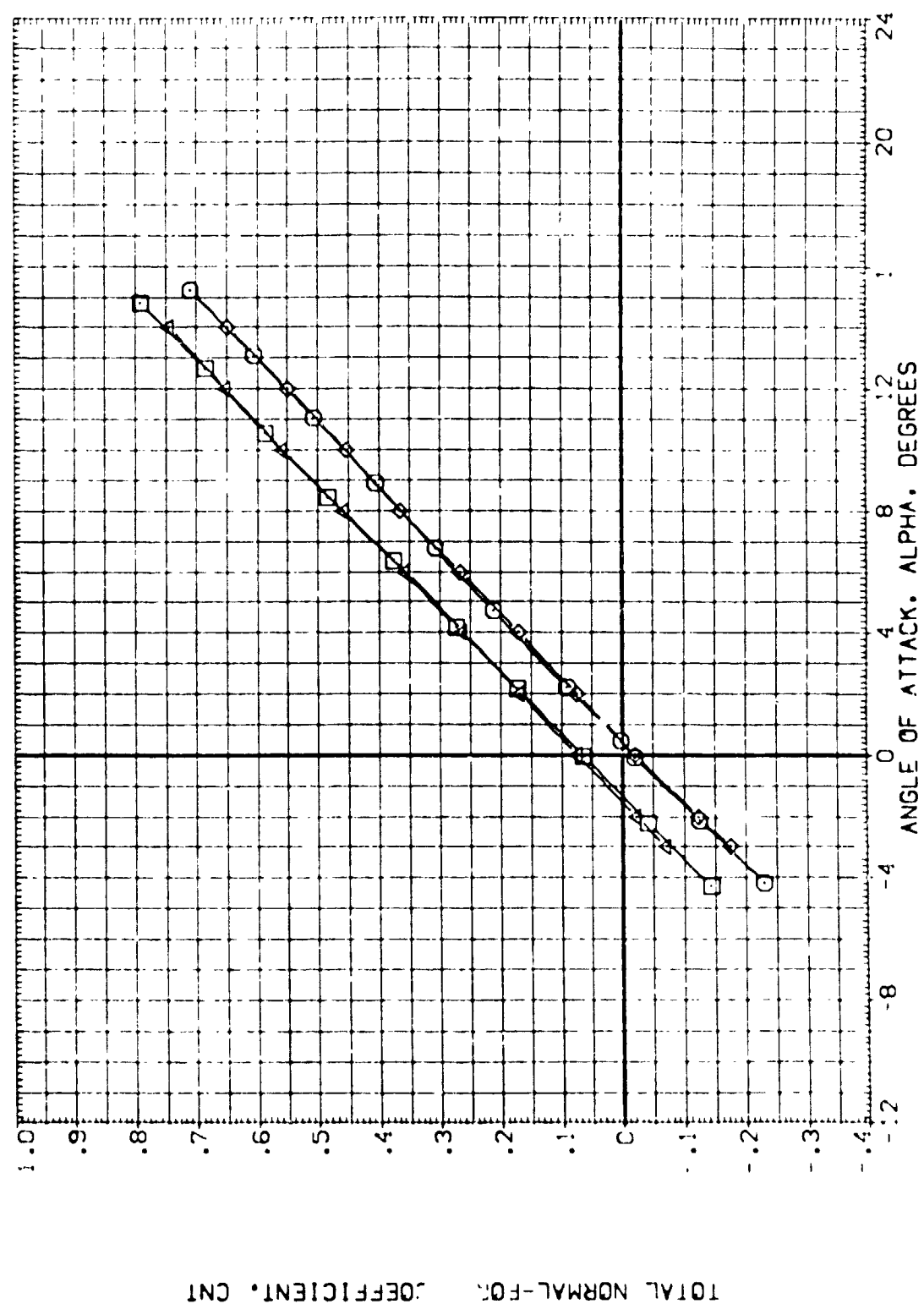


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 DASS 0111A-N24	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER020)	ARC 66-709 DASS 0111A-N24	.000	.000	-11.700	LREF .5935 FT.
(ZER019)	ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 IN.
(ZER020)	ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

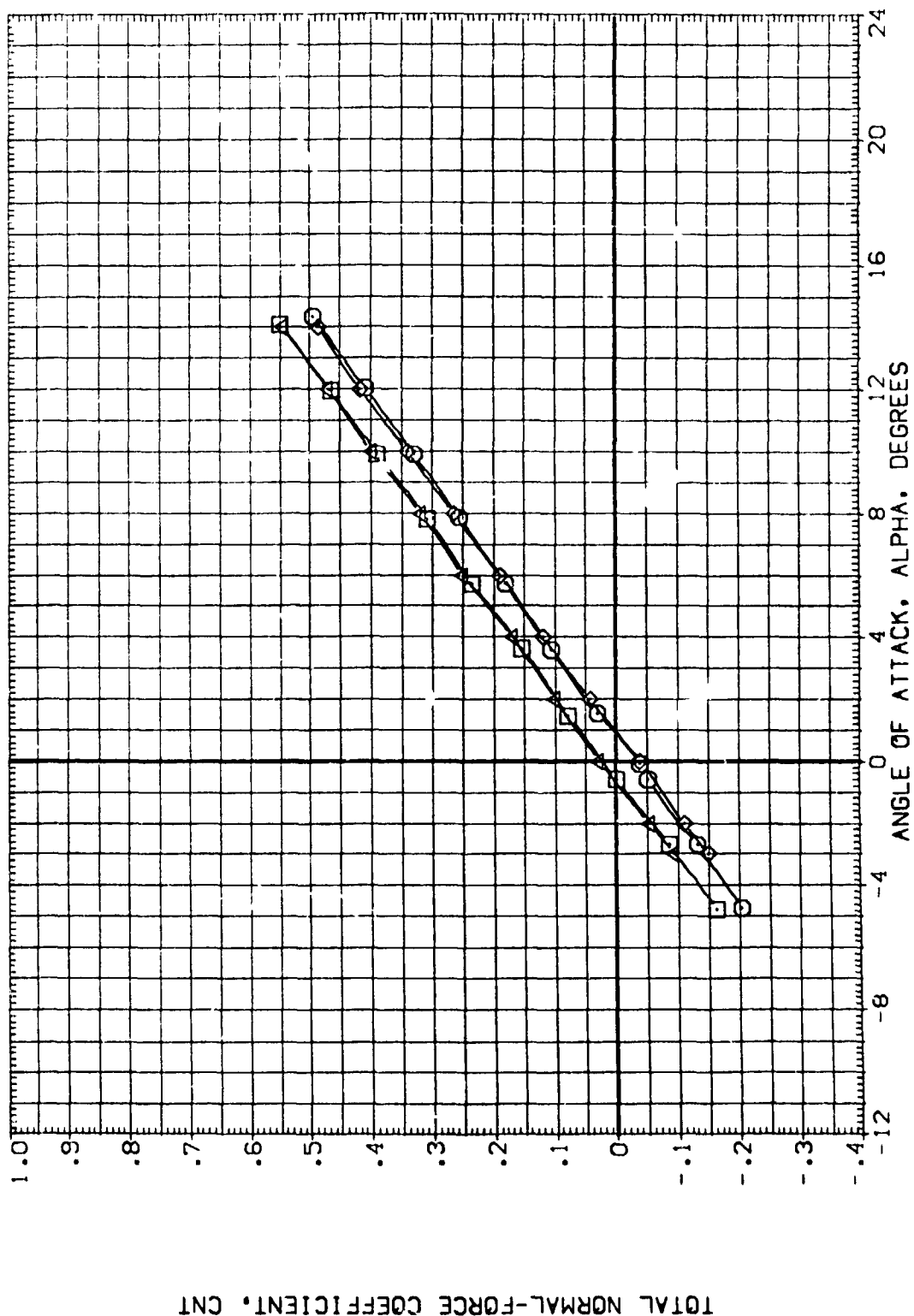


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	SRF	SO.FT.
(GE R019)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	-11.700	SRF	6053
(GE R020)	ARC 66-709 QAS9 0111A-(N24)	.000	15.000	-11.700	LREF	5936
(3E R019)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BRF	1.1710
(3E R020)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	VMRP	12.6255
					VMRP	.0000
					ZMRP	-.3750
					SCALE	.0150

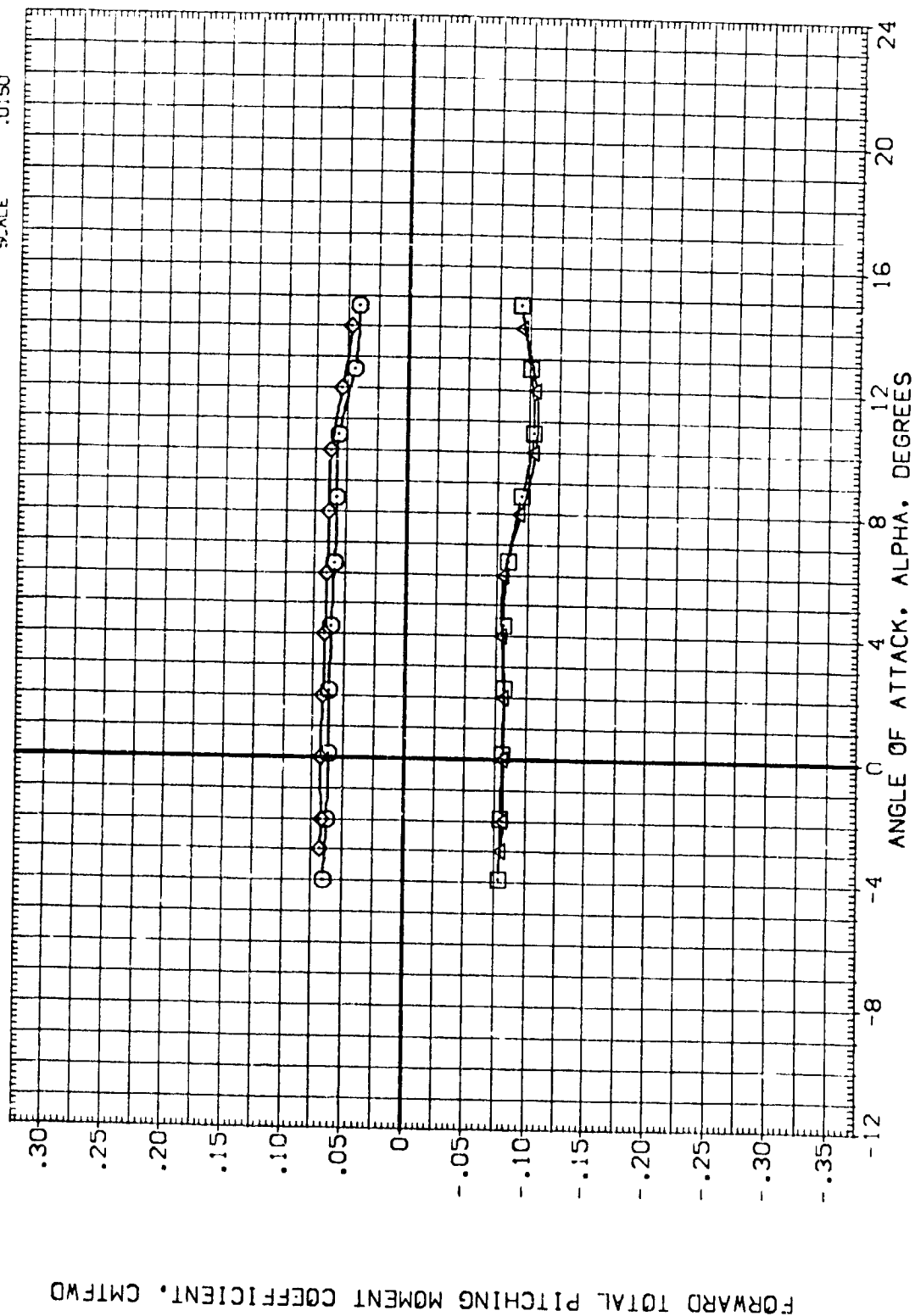


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

REFERENCE INFORMATION

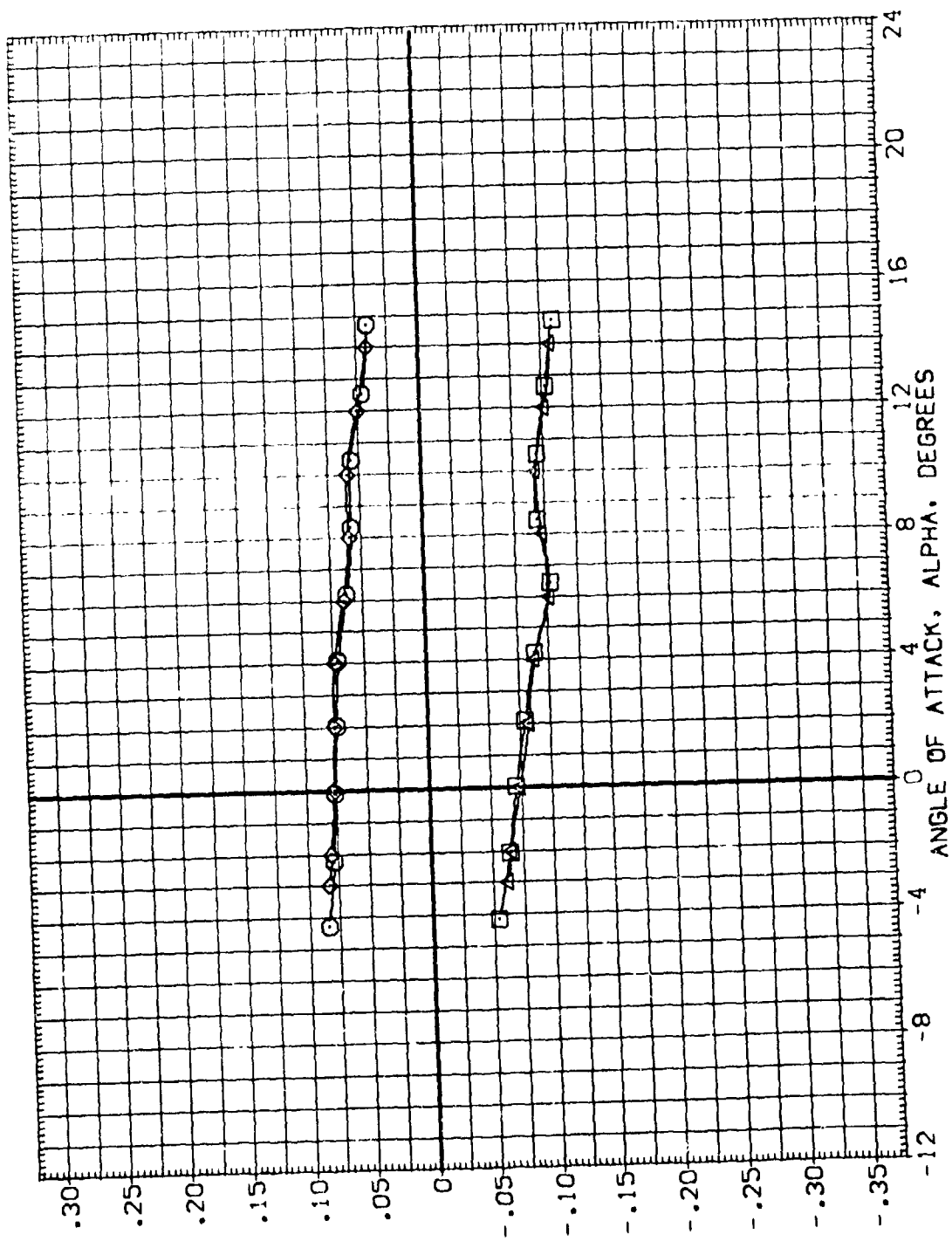
SREF	.6053	50. FT.
LREF	.5935	FT.
BREF	1.111C	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.375C	IN.
SCALE	.015C	

BETA

ELEVON	BOX LAP
.000	-11.700
.000	-11.700
.000	-11.700
.000	-11.700
.000	-11.700

DATA SET SYMBOL

CONF	IGURATION	DESCRIPTION
ARC 66-709	QAS9	Q111A-(N24)
ARC 66-709	QAS9	Q111A-(N24)
ARC 66-709	QAS9	Q111A-N24 (ADJUSTED FOR TARES)
ARC 66-709	QAS9	Q111A-N24 (ADJUSTED FOR TARES)



FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMFW

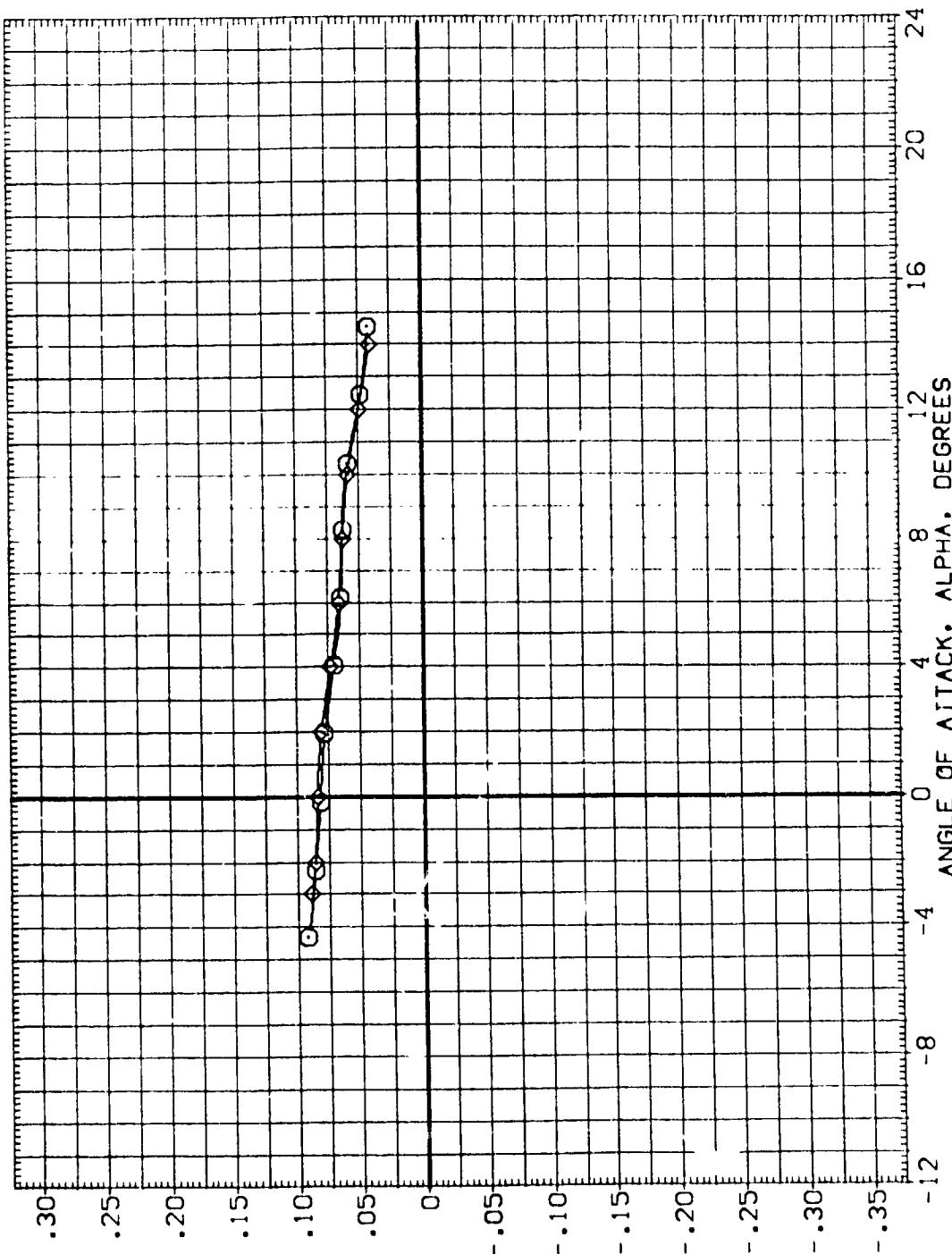
FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GER019) ARC 66-709 D459 D11A-(N24)
 (GER020) DATA NOT AVAILABLE
 (3ER019) ARC 66-709 D459 D11A-N24 (ADJUSTED FOR TARES)
 (3ER020) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5936 FT.
 BRFF 1.1710 IN.
 XMRP 12.6235 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150



FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMTFWD

FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(CJMAC) = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GER019) ARC 66-709 OA 3 OA11A-(N24)
 (GER020) ARC 66-709 OA59 OA11A-(N24)
 (GER019) ARC 66-709 OA59 011A-N24 (ADJUSTED FOR TARES)
 (GER020) ARC 66-709 OA59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMTFWD

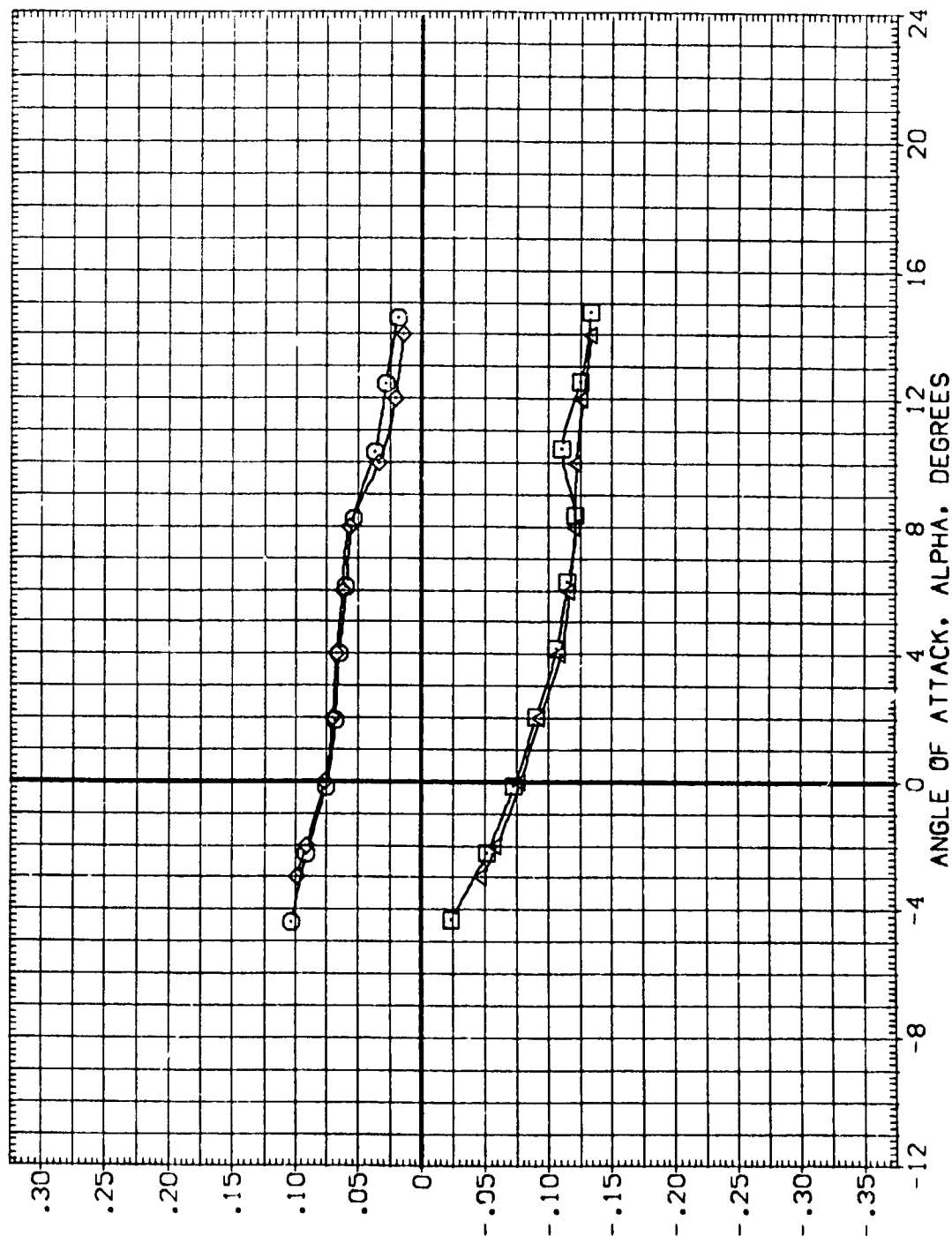


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(O)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER019) ARC 66-709 DASS 0111A-N24

(GER020) DATA NOT AVAILABLE

(3ER019) ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)

(3ER020) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMPP 12.6255 IN.

YMPP .0000 IN.

ZMPP -.3750 IN.

SCALE .0150

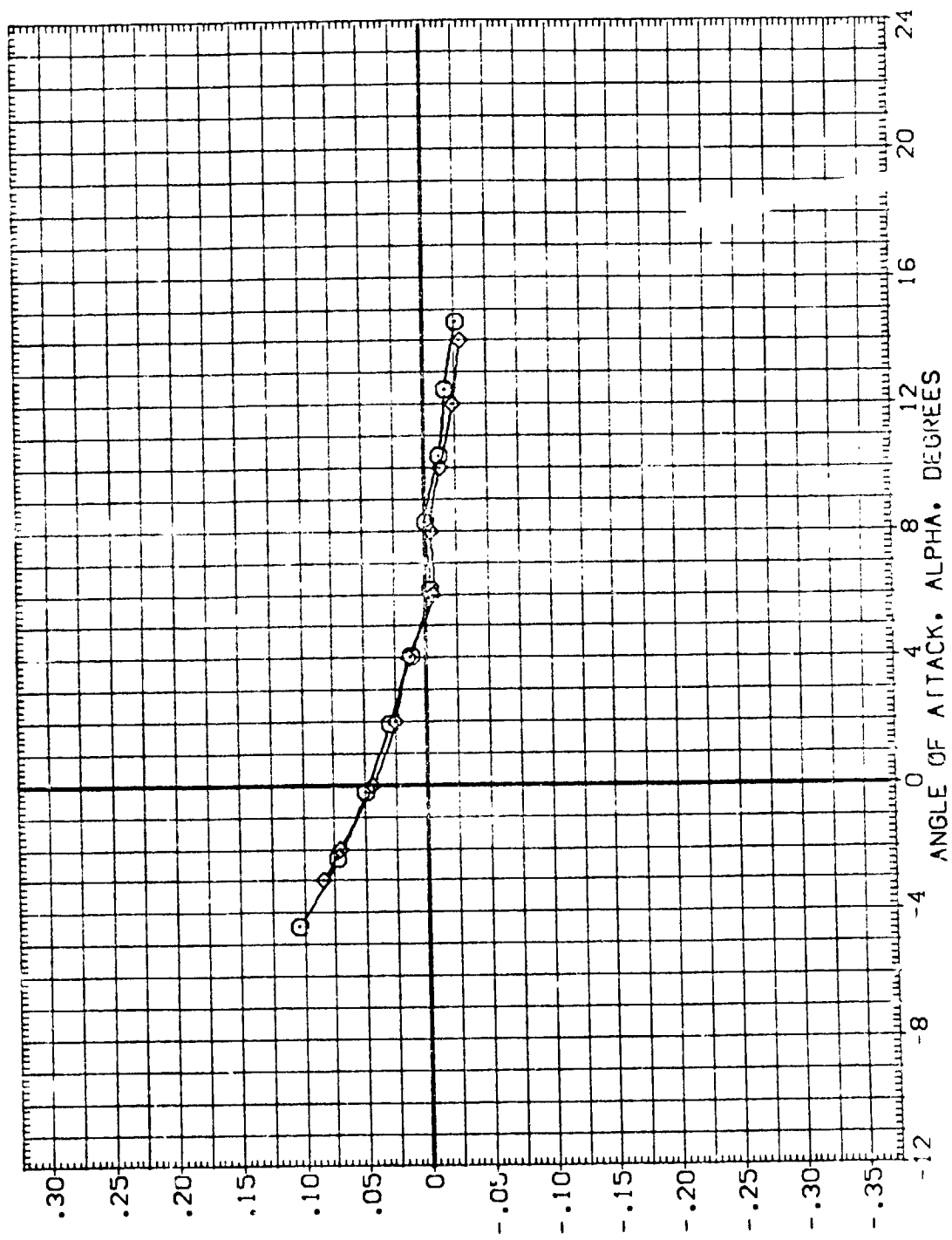


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(CM)MAC = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER020)	ARC 66-709 0A59 0A11A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(ZER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(ZER020)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

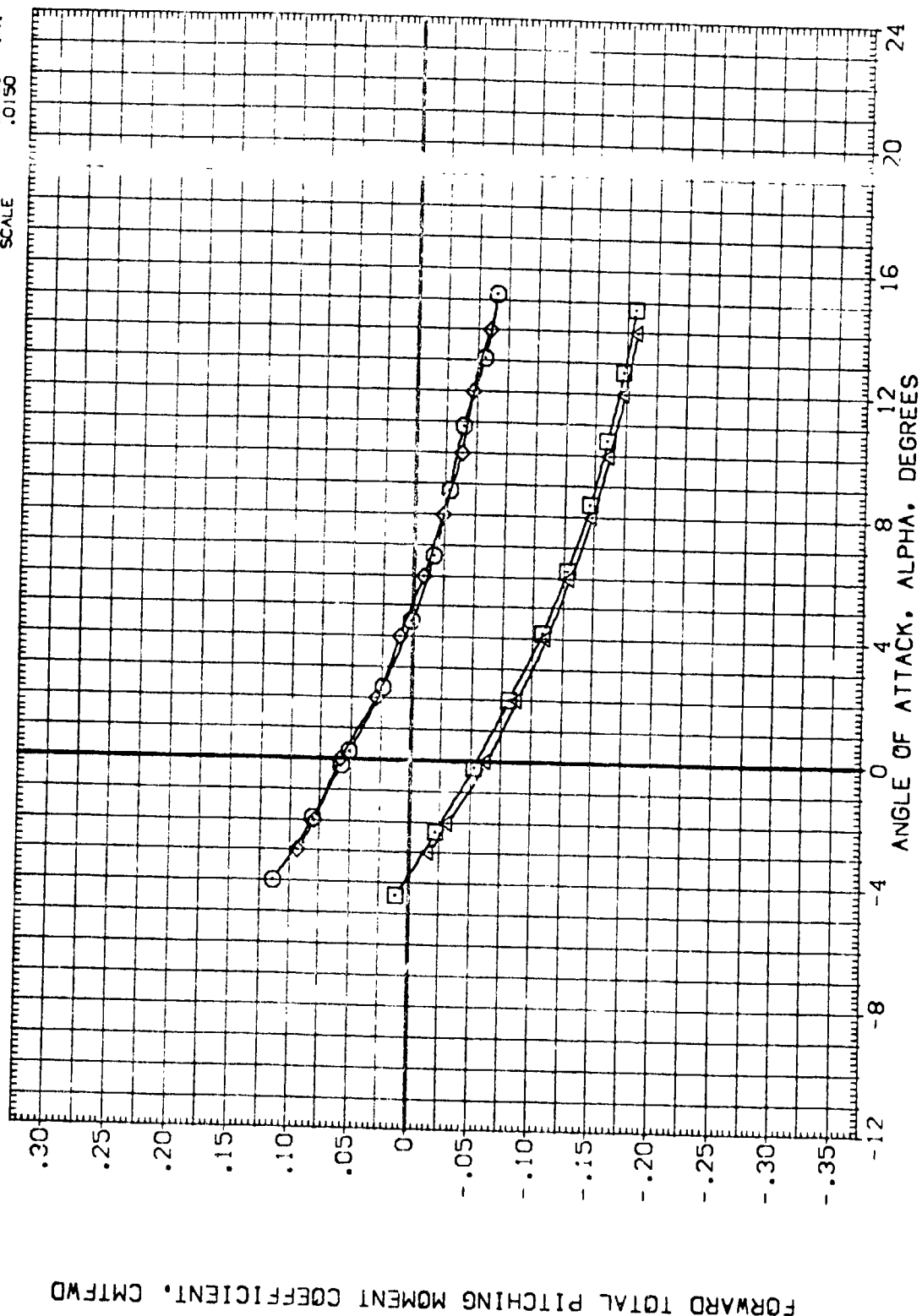


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(F)MAC = 1.20

DATA SET SYMBOL: (GER019) (GER020) (3ER019) (3ER020)

CONFIGURATION DESCRIPTION: ARC 66-709 DAS9 DA11A-(N24) ARC 66-709 DAS9 DA11A-(N24) (ADJ. STED FOR TARES) ARC 66-709 DAS9 DA11A-N24 (ADJUSTED FOR TARES)

BETA: .000 .000 .000 .000

ELEVON: .000 15.000 .000 15.000

BOFLAP: -11.700 -11.700 -11.700 -11.700

REFERENCE INFORMATION: SREF .6053 SQ.FT. LREF .5935 FT. BREF 1.1710 FT. YMRP 12.6255 IN. ZMRP .0000 IN. SCALE -.3750 IN. .0150

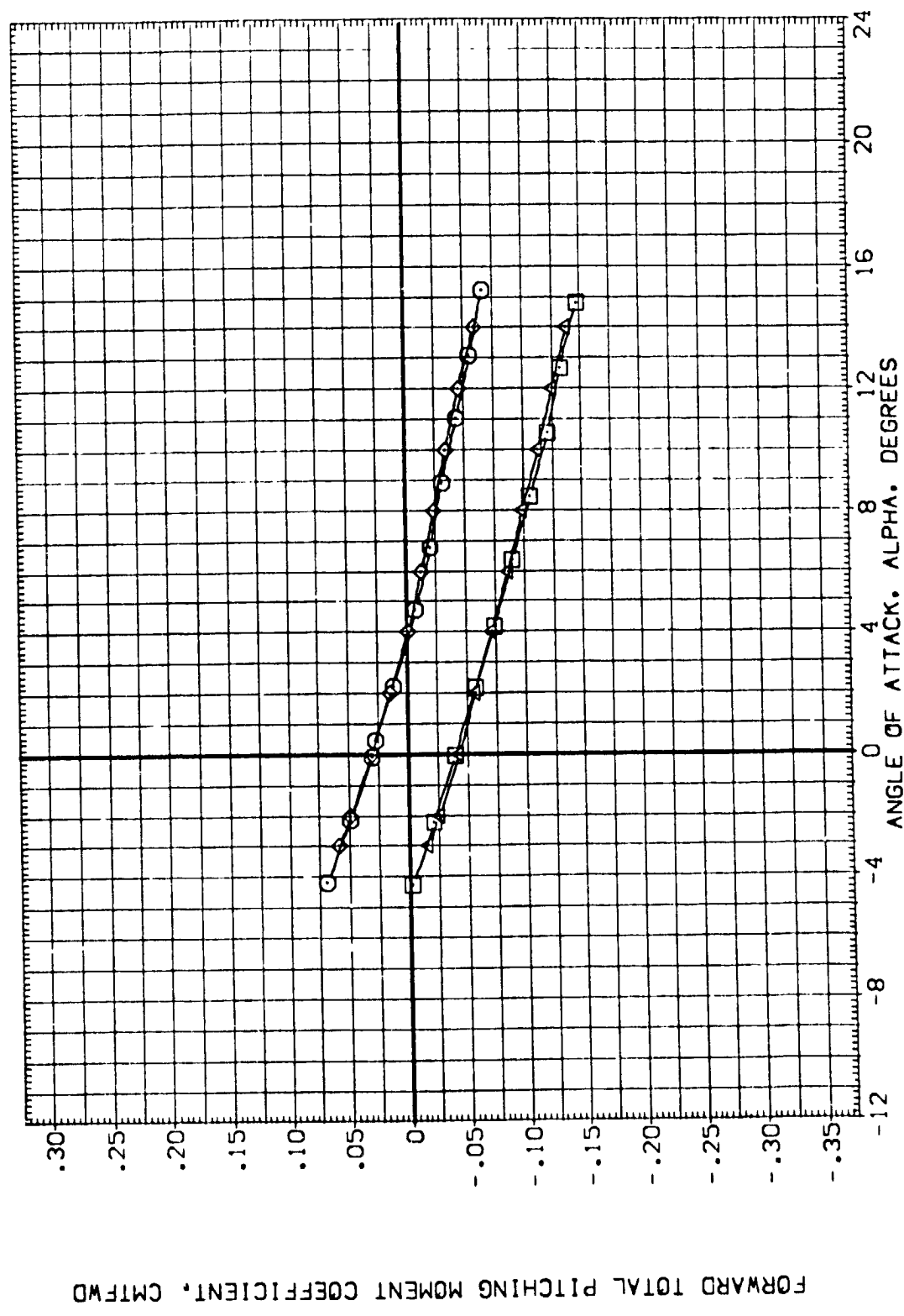


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	---1.700	SREF .5053 SQ.FT.
(GER020)	ARC 66-709 QAS9 0111A-(N24)	.000	15.000	---1.700	LREF .5935 FT.
(ZER019)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	---1.700	BREF 1.1710 FT.
(ZER020)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	15.000	---1.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

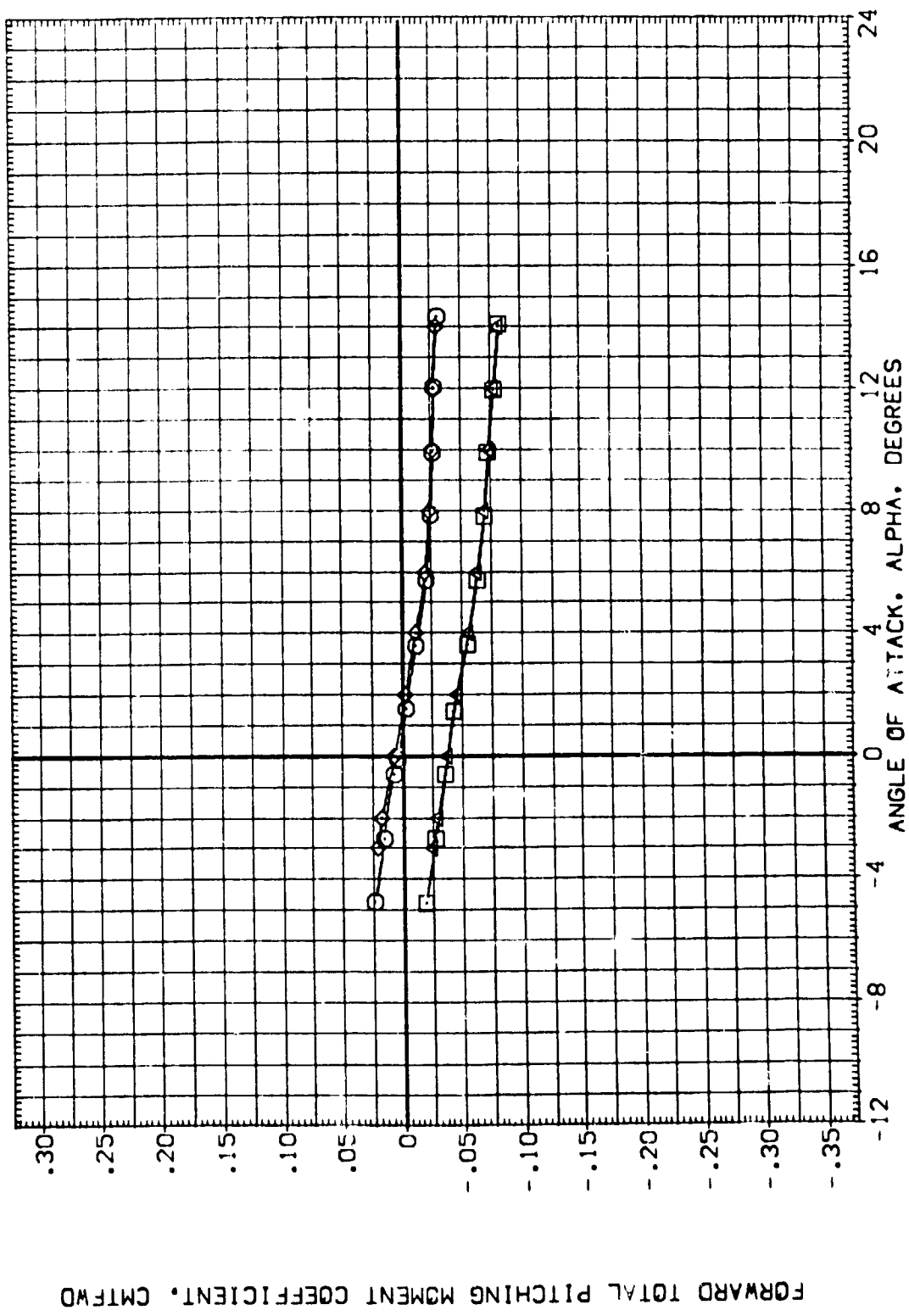


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 2.00

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6755 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GER019) ARC 66-709 0A59 0A11A-(N24)
 (GER020) ARC 66-709 0A59 0A11A-(N24)
 (ZER019) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
 (ZER020) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

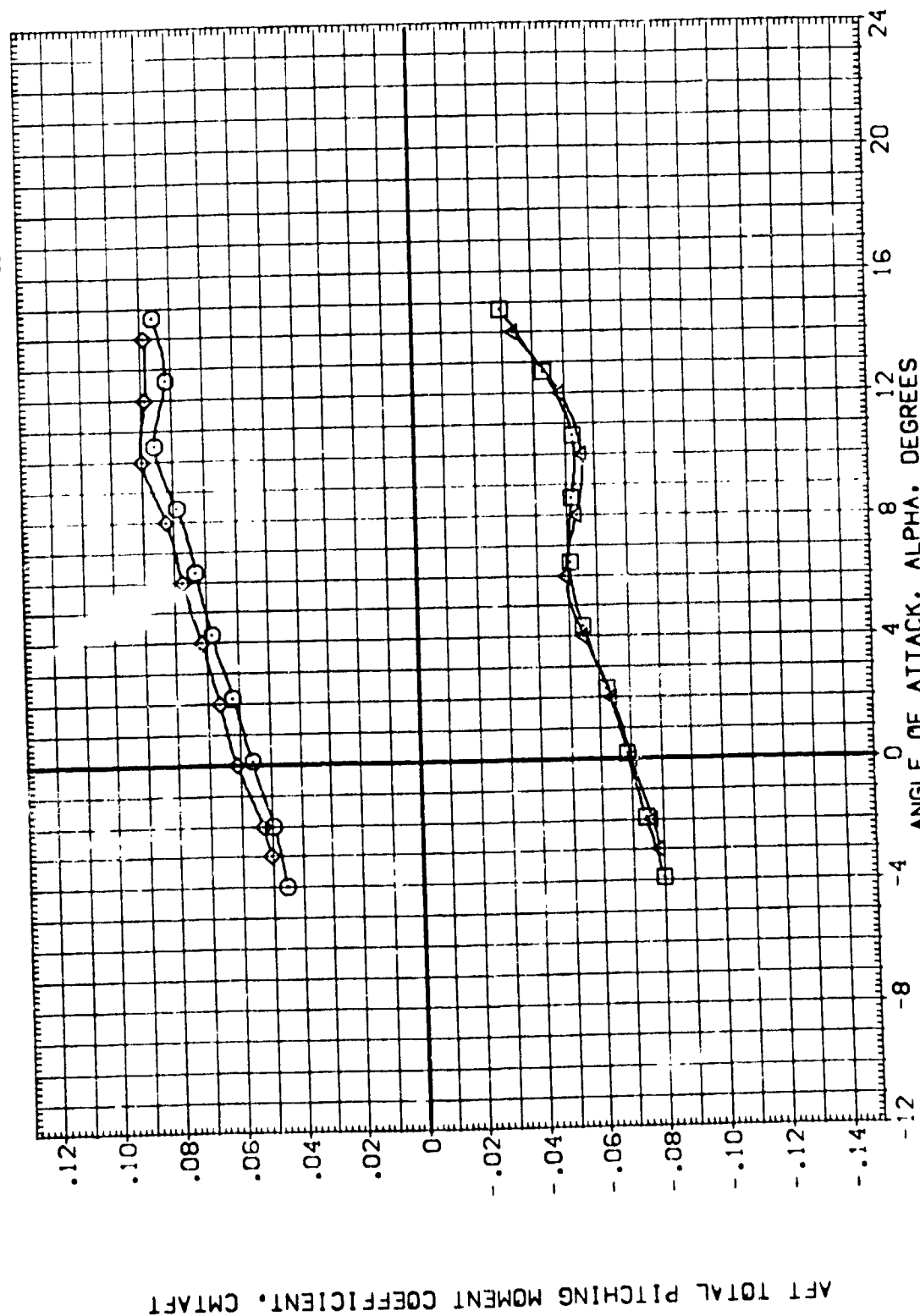


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BDF LAP REFERENCE INFORMATION

(ZERO19)	ARC 66-709 DA59 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(ZERO20)	ARC 66-709 DA59 0111A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(ZERO19)	ARC 66-709 DA59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(ZERO20)	ARC 66-709 DA59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

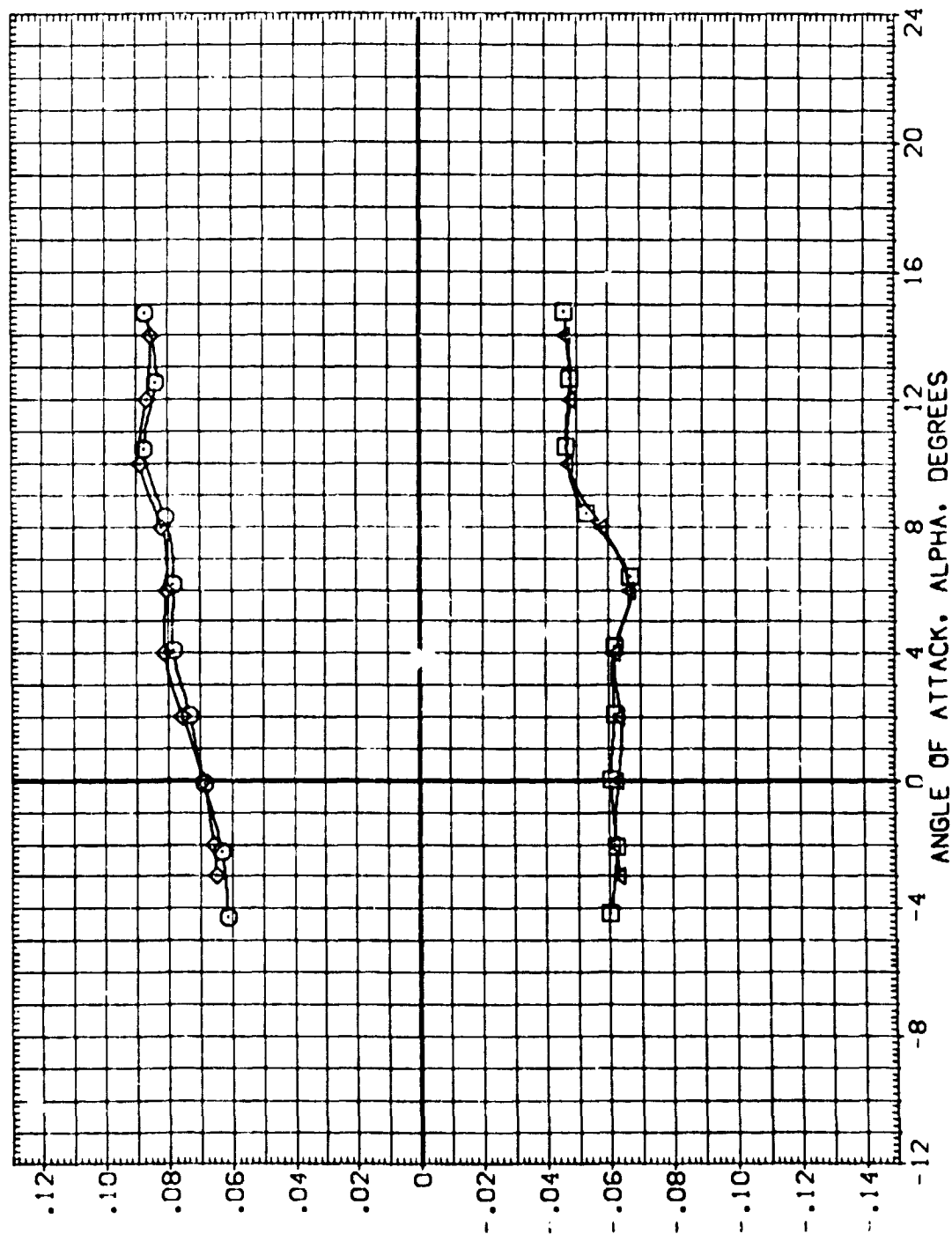


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GE R019}	○	ARC 66-709 OAS9 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
{GE R020}	×	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
{3E R019}	○	ARC 66-709 OAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
{3E R020}	×	DATA NOT AVAILABLE	.000	15.000	-11.700	XMRD 12.6255 IN.
						YMRD .0000 IN.
						ZMRD -.3750 IN.
						SC .E

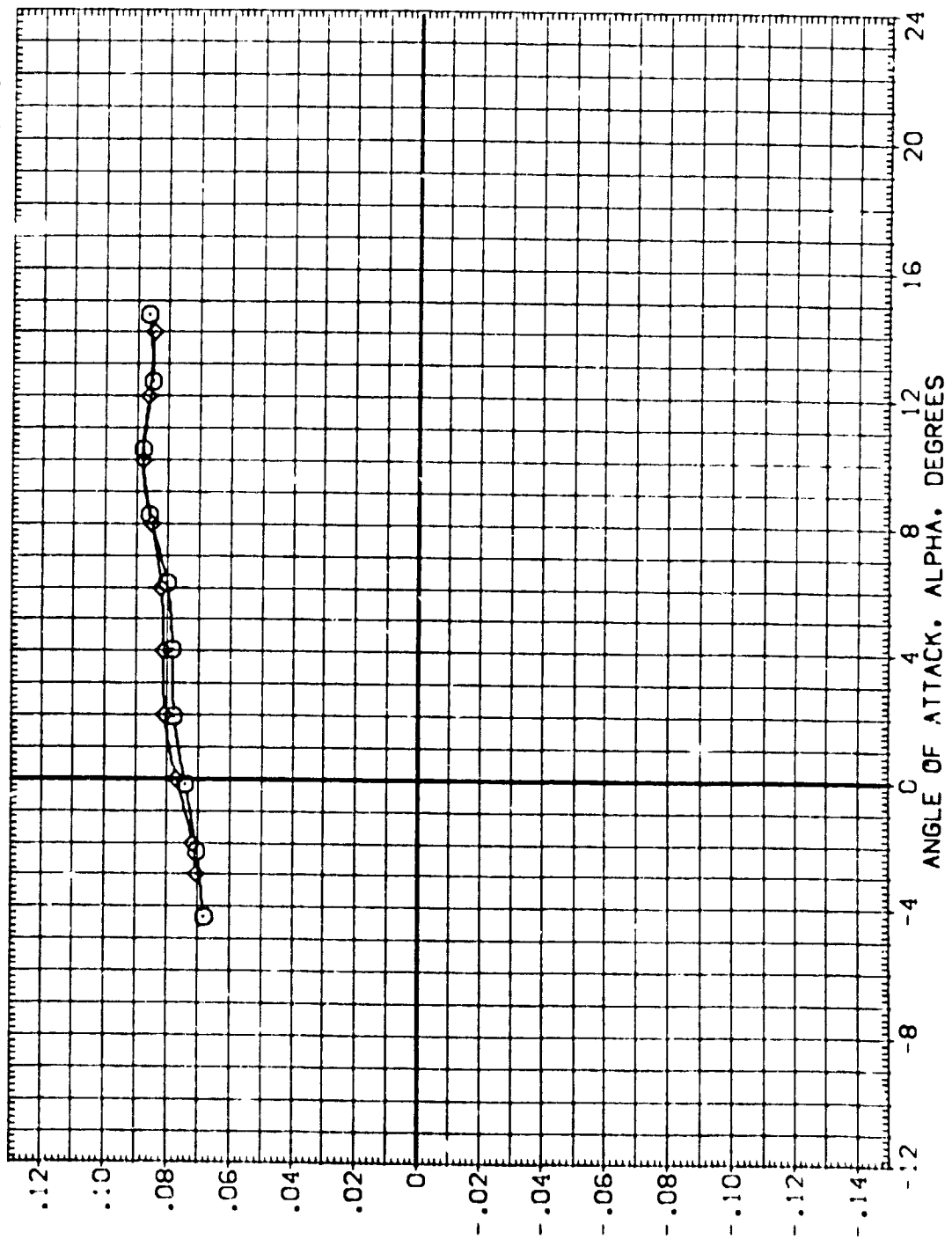


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(GE019)	ARC 66-709 0A59 0A11A-N24	.000	.000	-11.700	SREF .6053 50.FT.
(GE020)	ARC 66-709 0A59 0A11A-N24	.000	.000	-11.700	LREF .5935 FT.
(GE019)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(GE020)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

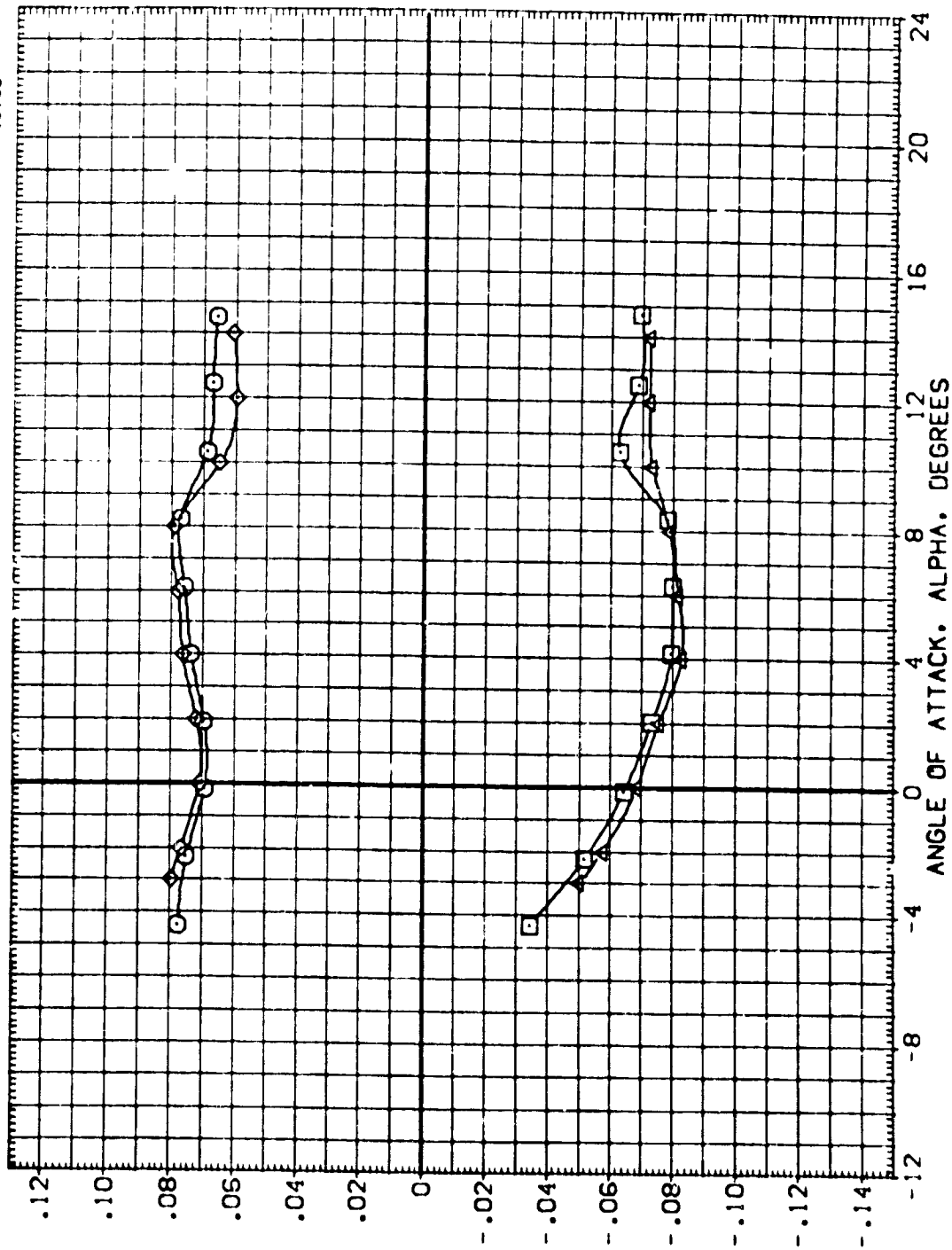





FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(0)MACH = .90

DATA SET SYMBOL:   

CONFIGURATION DESCRIPTION:
 ARC 66-709 QAS9 0111A-N24
 DATA NOT AVAILABLE
 ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)
 DATA NOT AVAILABLE

BETA: .000
 ELEVON: .000
 BOFLAP: -11.700

REFERENCE INFORMATION:
 SREF: .6053 SQ.FT.
 LREF: .5936 FT.
 BREF: 1.1710 FT.
 XREF: 12.0255 IN.
 YREF: .0000 IN.
 ZREF: -.3750 IN.
 SCALE: 0.50

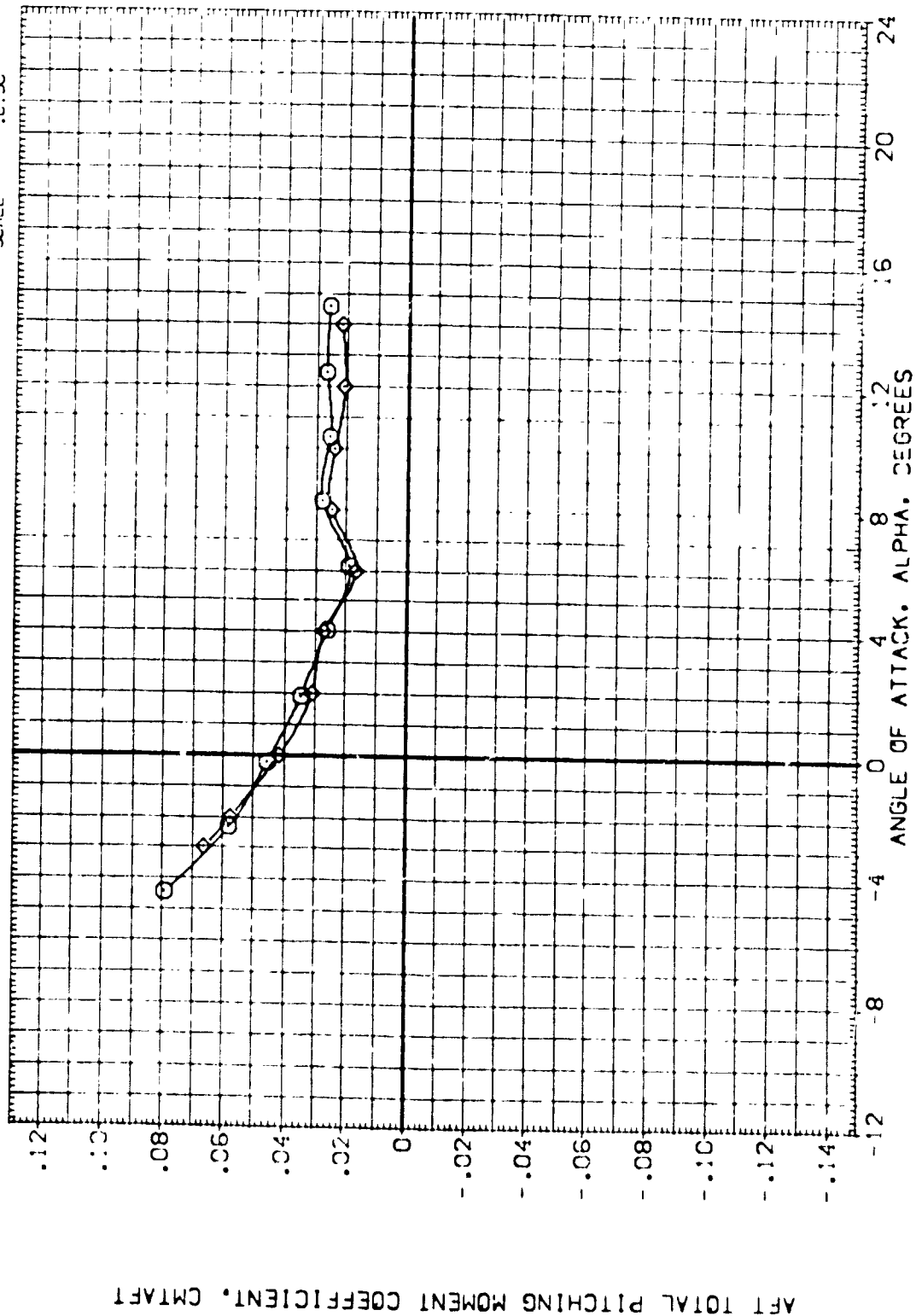
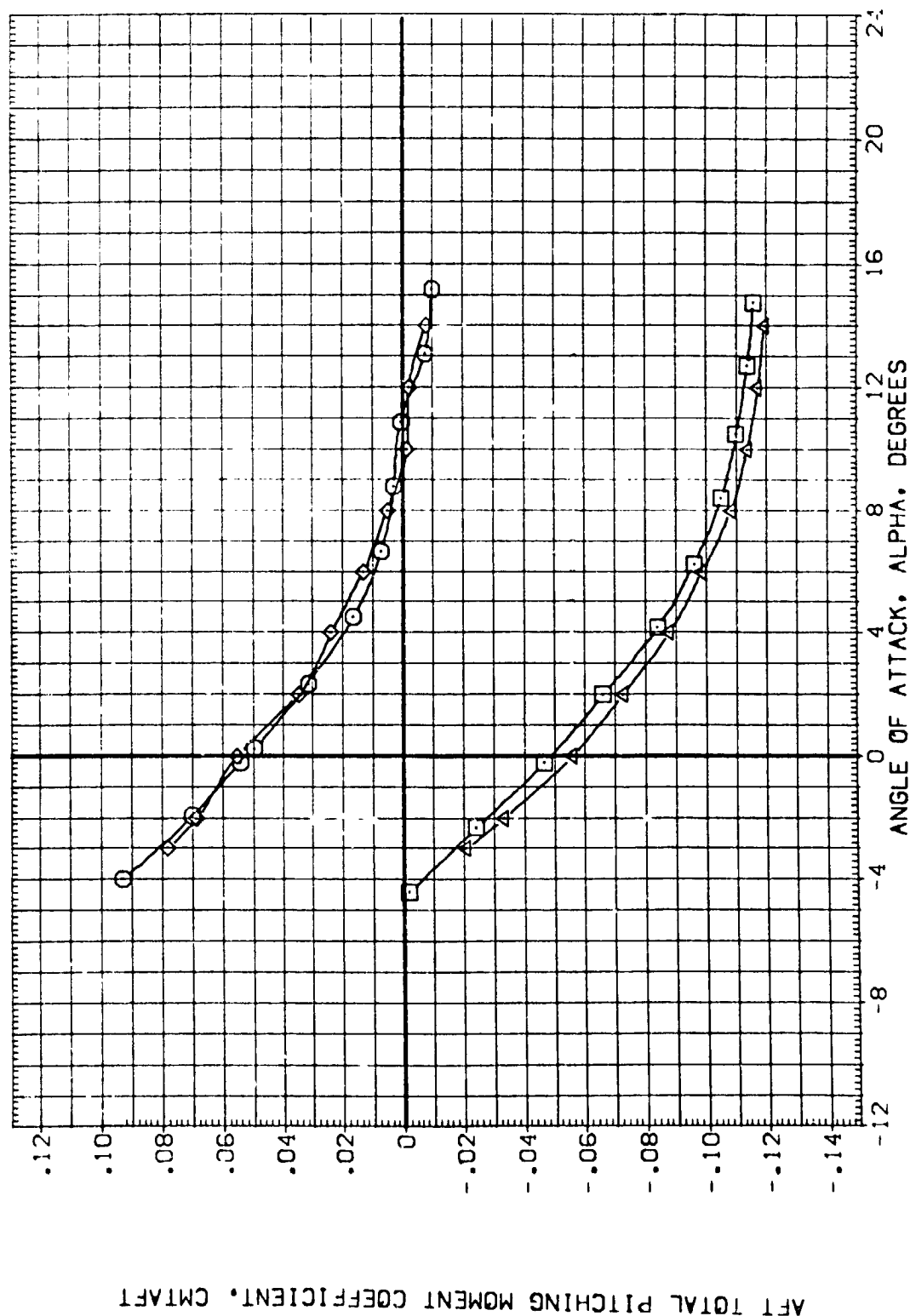


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(E)MAC: .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION, IN

(36R019)	ARC 66-709 DASS 0111A-N24	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(36R020)	ARC 66-709 DASS 0111A-N24	.000	.000	-11.700	SREF .6053
(36R019)	ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	LREF .5935
(36R020)	ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710
		.000	15.000	-11.700	XMRP 12.6255
					YMRP .0000
					ZMRP -.3750
					SCALE .0150



DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP

(GEO19) ARC 66-709 0A59 0A11A-N24 .000 .000 -11.700

(GEO20) ARC 66-709 0A59 0A11A-N24 .000 15.000 -11.700

(GEO19) ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES) .000 .000 -11.700

(GEO20) ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES) .000 15.000 -11.700

REFERENCE INFORMATION

SREF .8753 SQ.FT.
LREF .5535 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

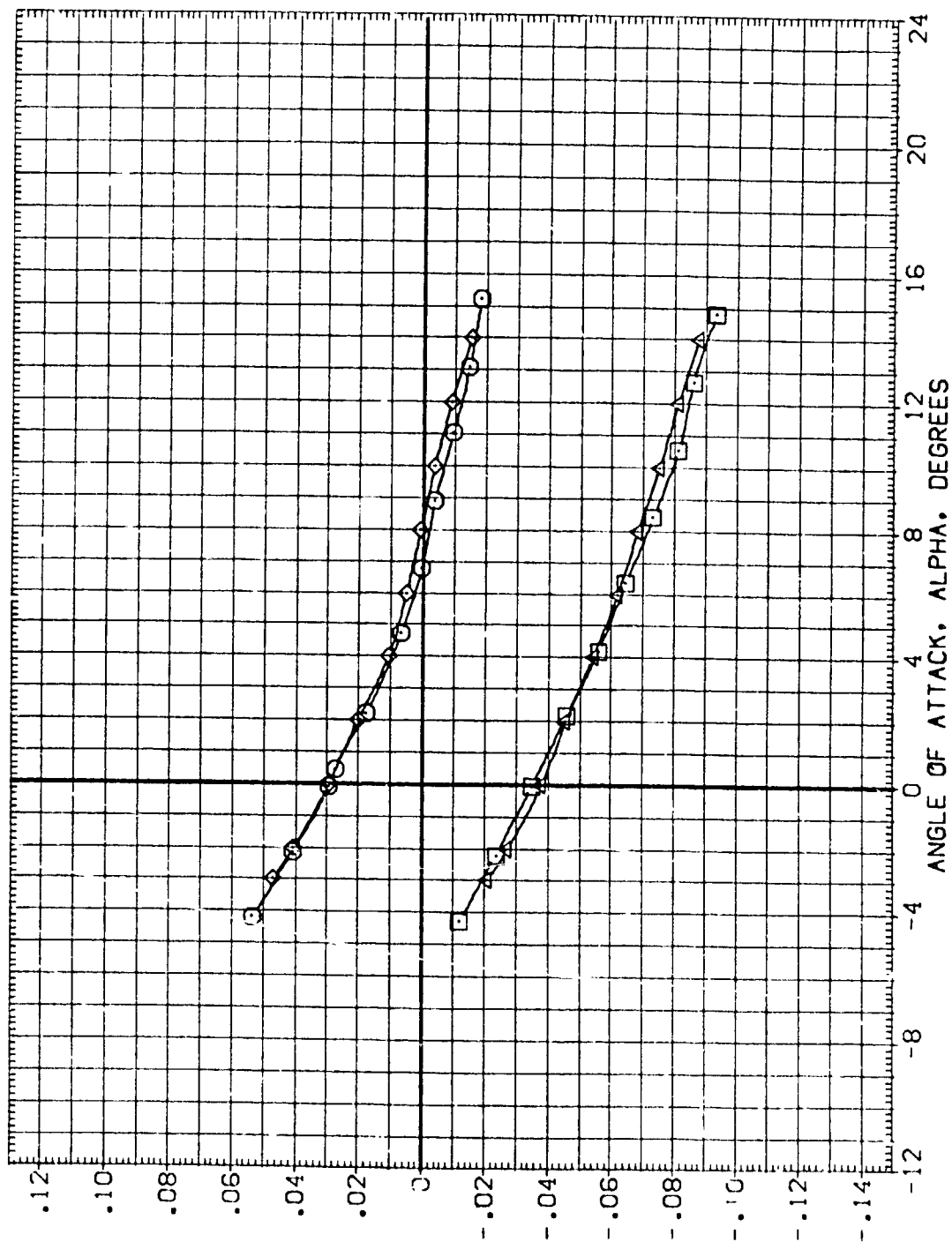


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(ZER019)	ARC 66-709 OAS9 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(ZER020)	ARC 66-709 OAS9 0A11A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(ZER019)	ARC 66-709 OAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 IN.
(ZER020)	ARC 66-709 OAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

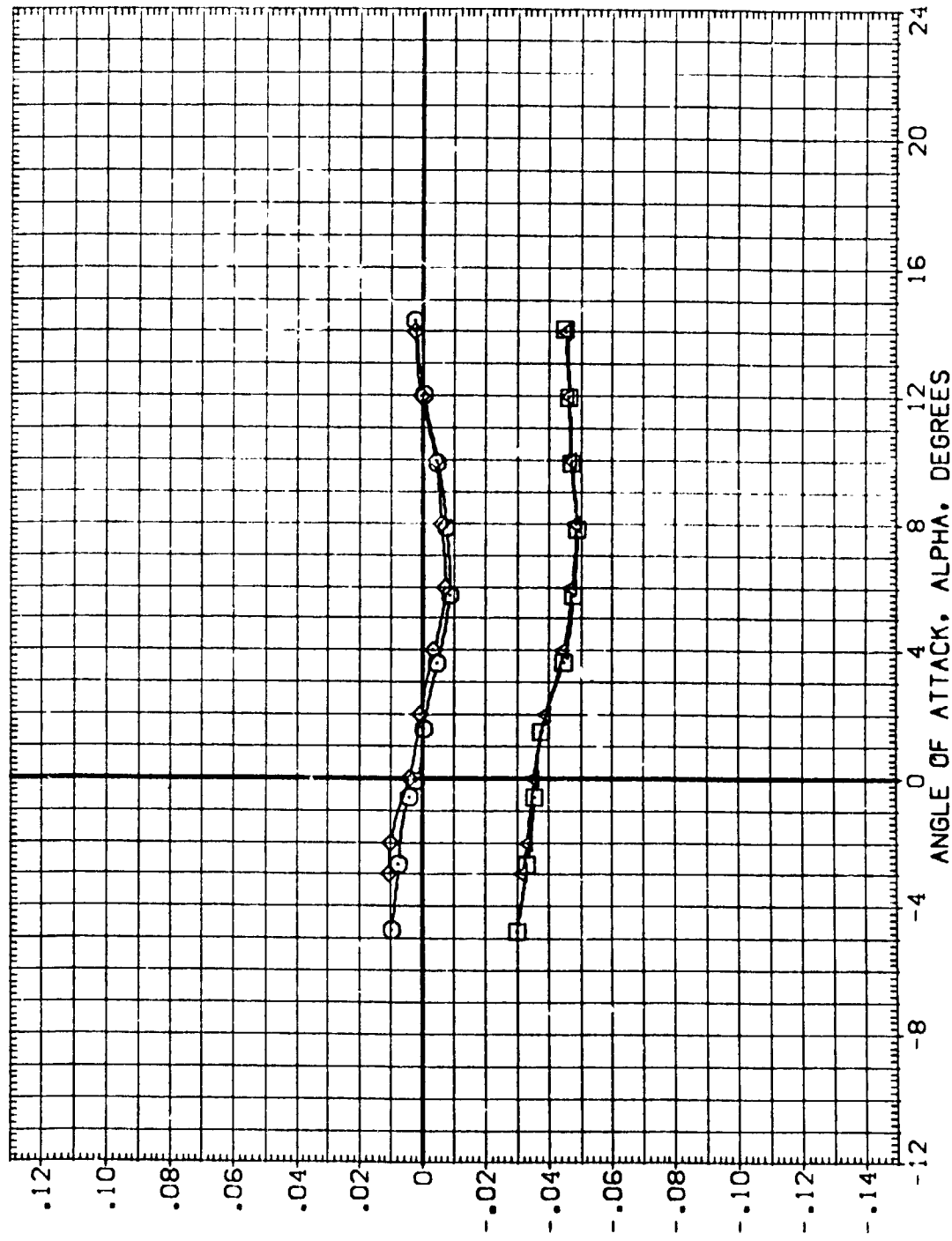


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER019)	ARC 66-709 0A59 0A11A-(N24)
(GER020)	ARC 66-709 0A59 0A11A-(N24)
(3ER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
(3ER020)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

REFERENCE INFORMATION

SREF	.6053	SQ.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

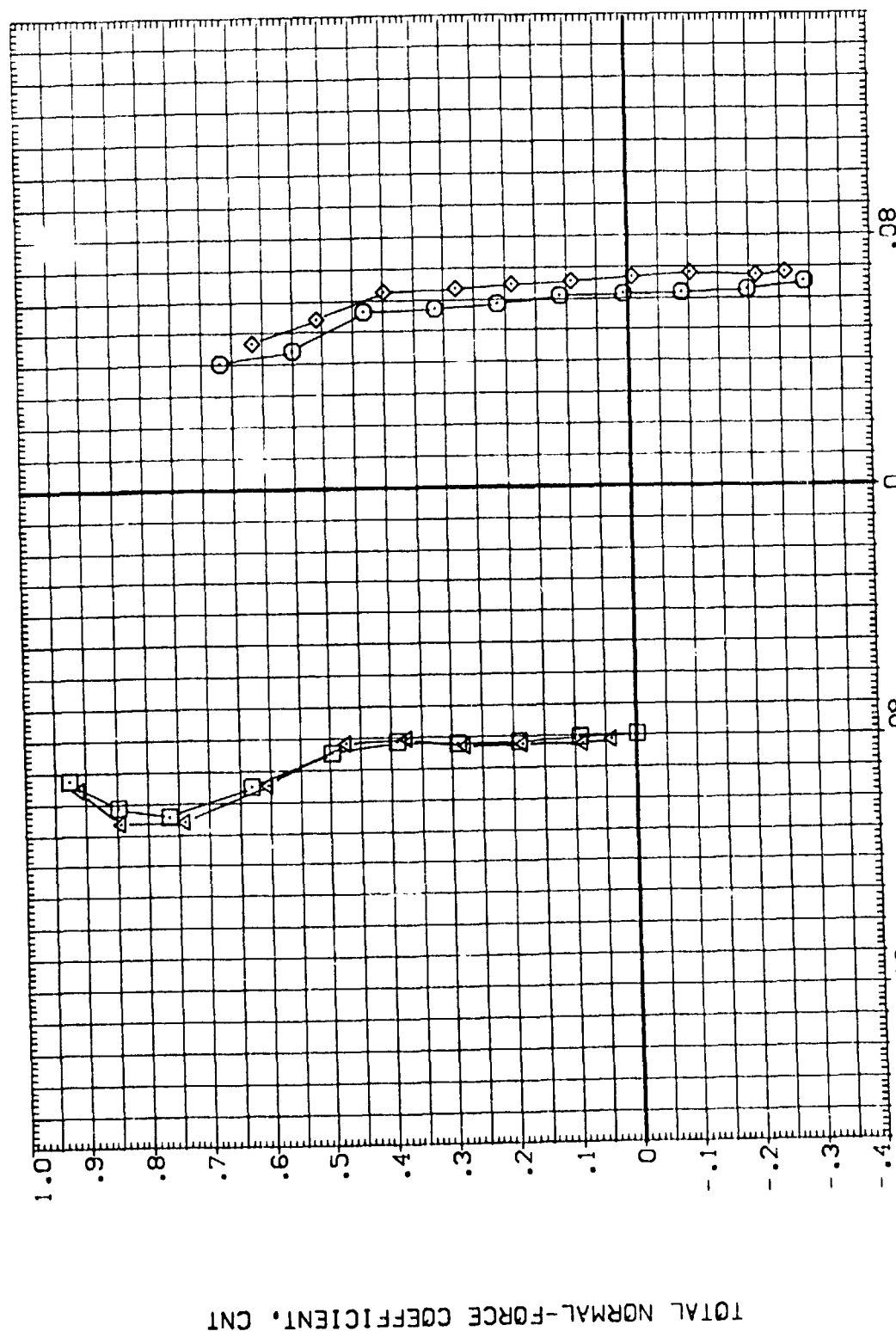


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP

(GER019) ARC 66-708 QAS9 0111A-(N24) .000 .000 -11.700

(GER020) ARC 66-708 QAS9 0111A-(N24) .000 .000 -11.700

(GER019) ARC 66-708 QAS9 0111A-N24 (ADJUSTED FOR TARES) .000 .000 -11.700

(GER020) ARC 66-708 QAS9 0111A-N24 (ADJUSTED FOR TARES) .000 .000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5936 FT.

BREF 1.1710 FT.

XMRP 12.6265 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

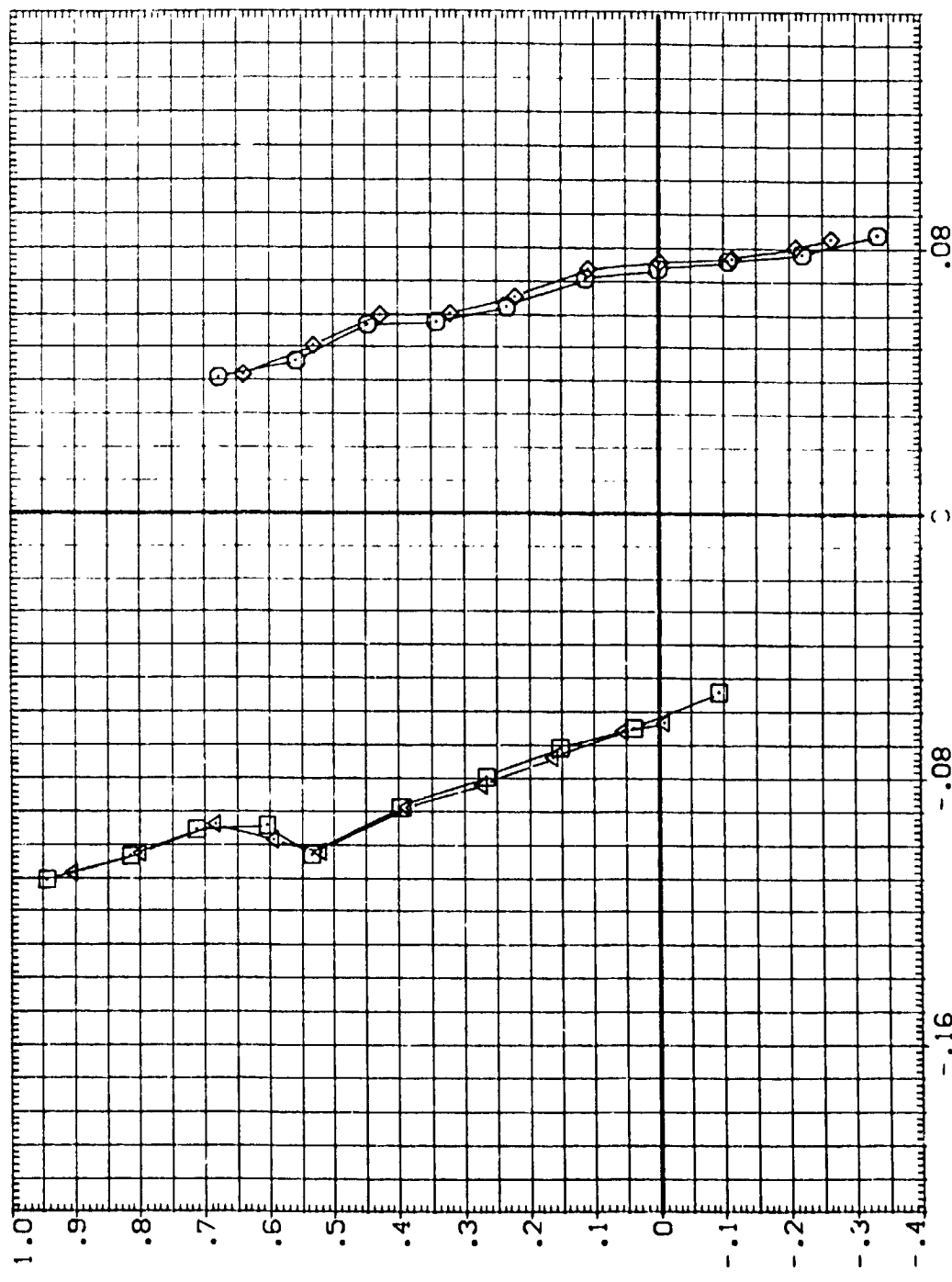


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(06R019) ARC 66-709 QAS9 0111A-(N24)

(06R020) DATA NOT AVAILABLE

(06R019) ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)

(06R020) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 15.000 -11.700

.000 15.000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

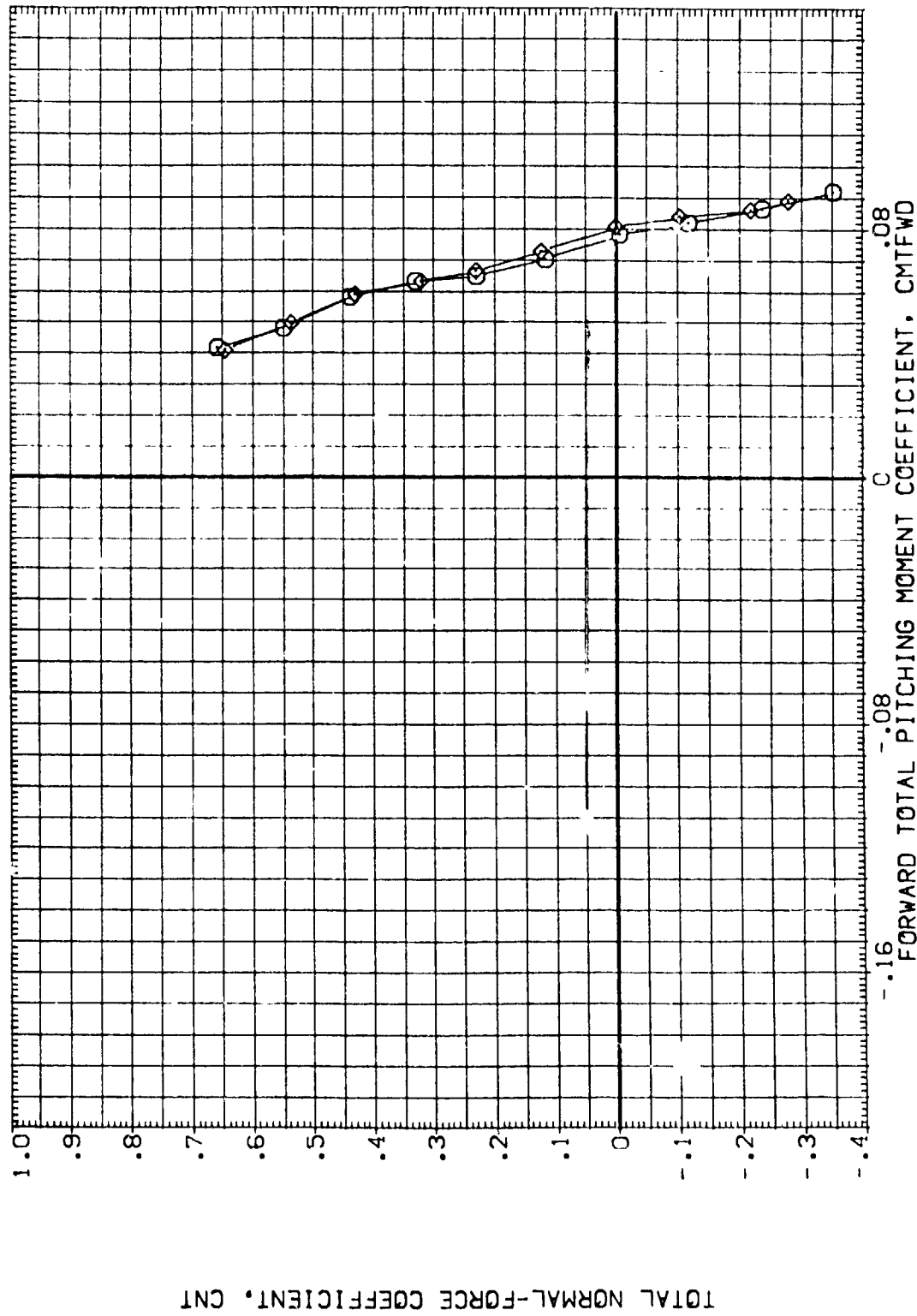


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOCLAP	REFERENCE INFORMATION
(GERO19)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .8053 SQ.FT.
(GERO20)	ARC 66-709 0A59 0A11A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(3ERO19)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(3ERO20)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

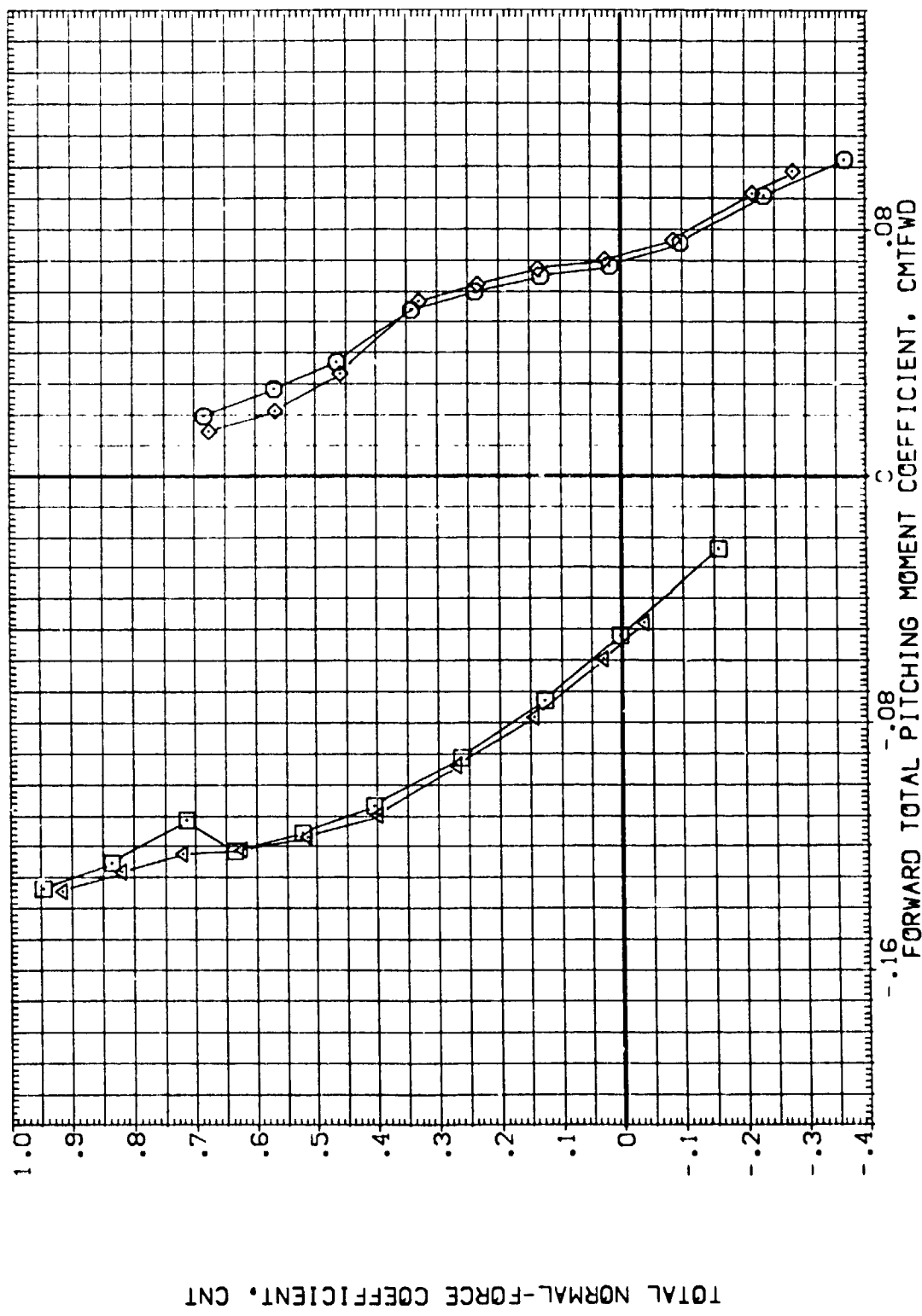


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(D)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER019) ARC 66-709 DA59 0A11A-(N24)

(GER020) DATA NOT AVAILABLE

(3ER019) ARC 66-709 DA59 011A-N24 (ADJUSTED FOR TARES)

(3ER020) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

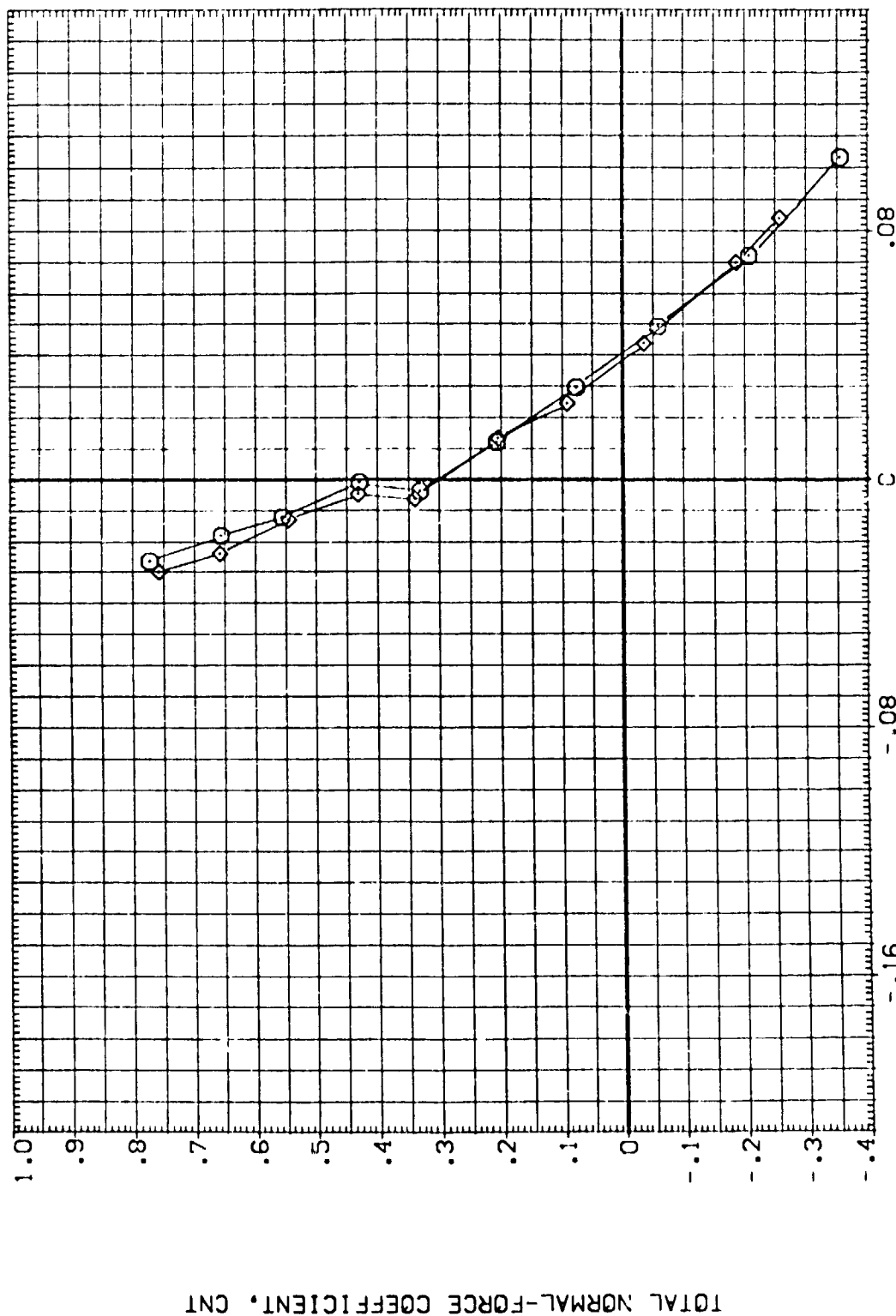


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(E)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GER019) [] ARC 66-709 QAS9 0111A-(N24)
 (GER020) [] ARC 66-709 QAS9 0111A-(N24)
 (XER019) [X] ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)
 (XER020) [X] ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5635 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

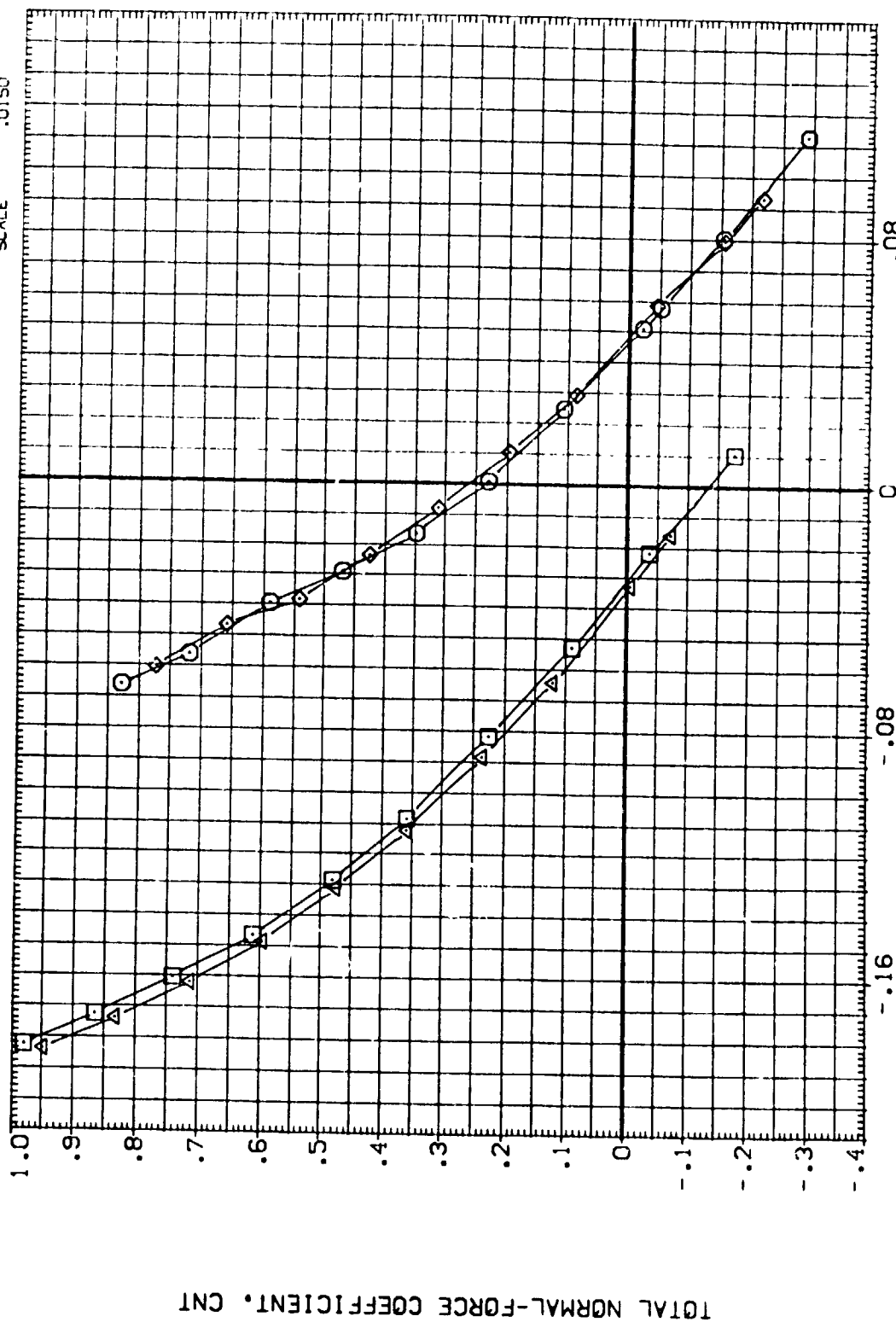


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(GE019)		ARC 66-709 0A59	0A11A-N24
(GE020)		ARC 66-709 0A59	0A11A-N24
(GE019)		ARC 66-709 0A59	0A11A-N24
(GE020)		ARC 66-709 0A59	0A11A-N24

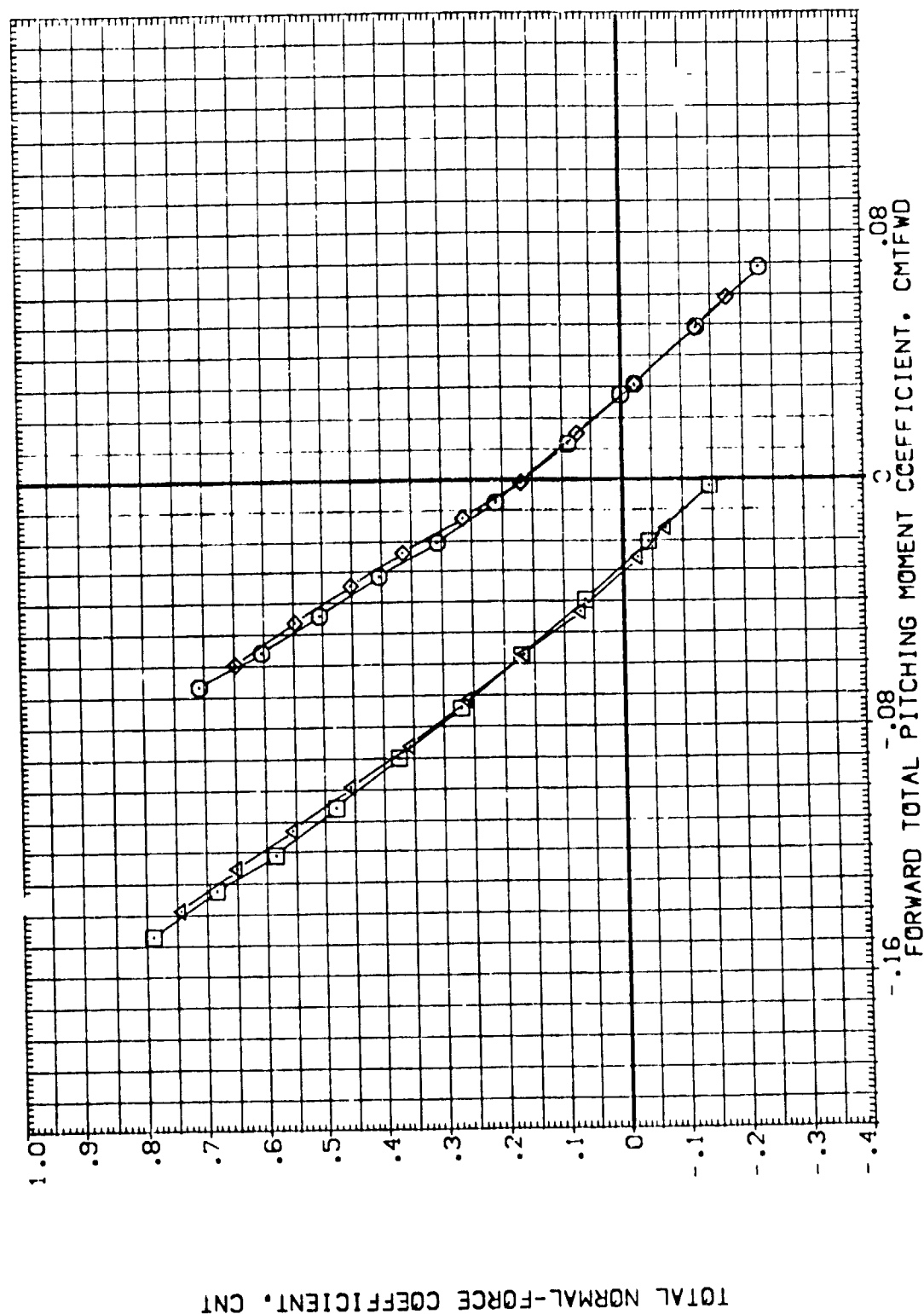


FIG. 13. FLECON EFFECTIVENESS WITH/WITHOUT TARES

$$[GG]MACH = 1.50$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER020)	ARC 66-709 0A59 0A11A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(GER019)	ARC 66-709 0A59 0A11A-(N24) (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(GER020)	ARC 66-709 0A59 0A11A-(N24) (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6755 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

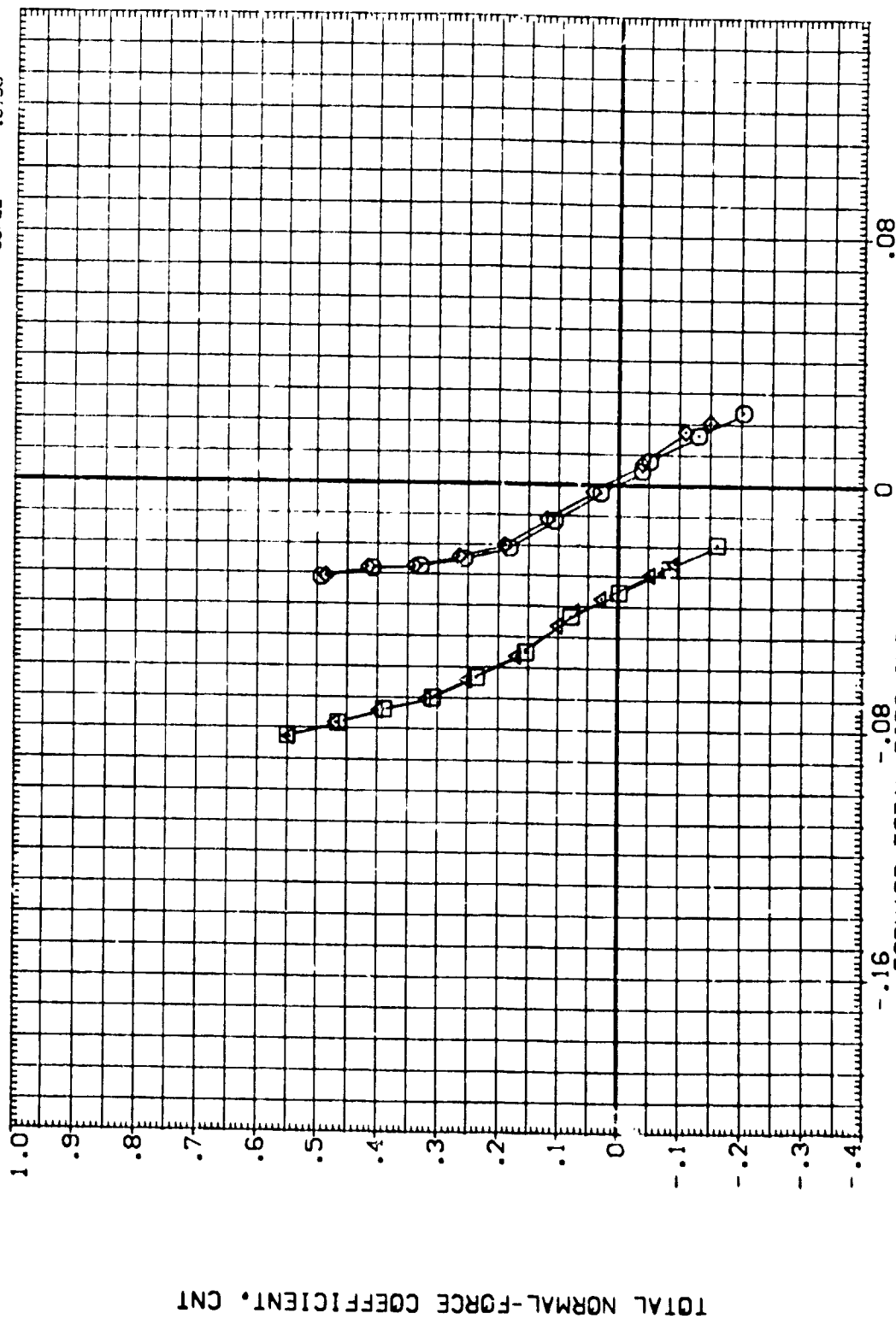


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER020)	ARC 66-709 0A59 0A11A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(ZER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(ZER020)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

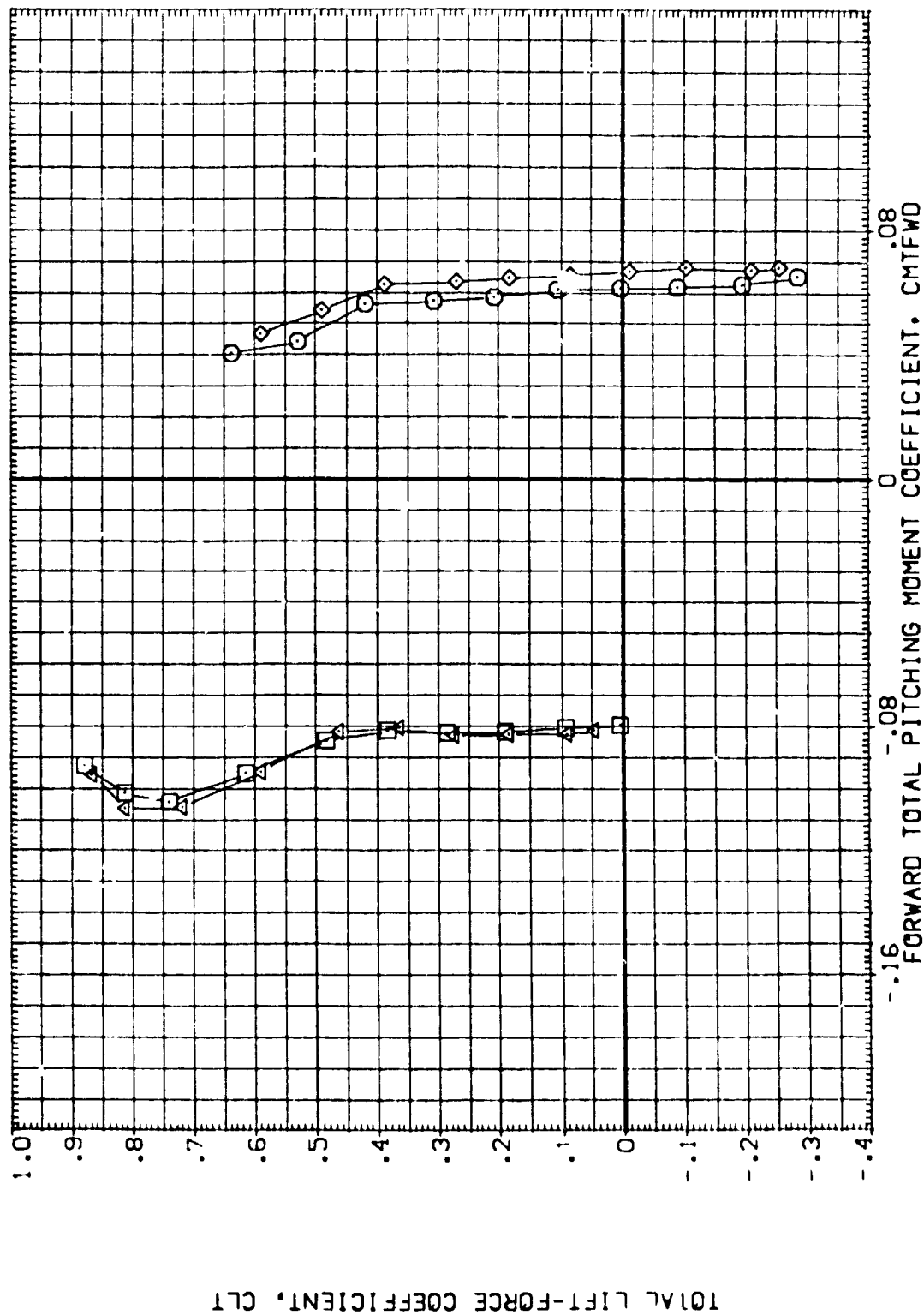


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GE019) ARC 66-709 0A59 0A11A-(N24)

(GE020) ARC 66-709 0A59 0A11A-(N24)

(GE019) ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)

(GE020) ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50. FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

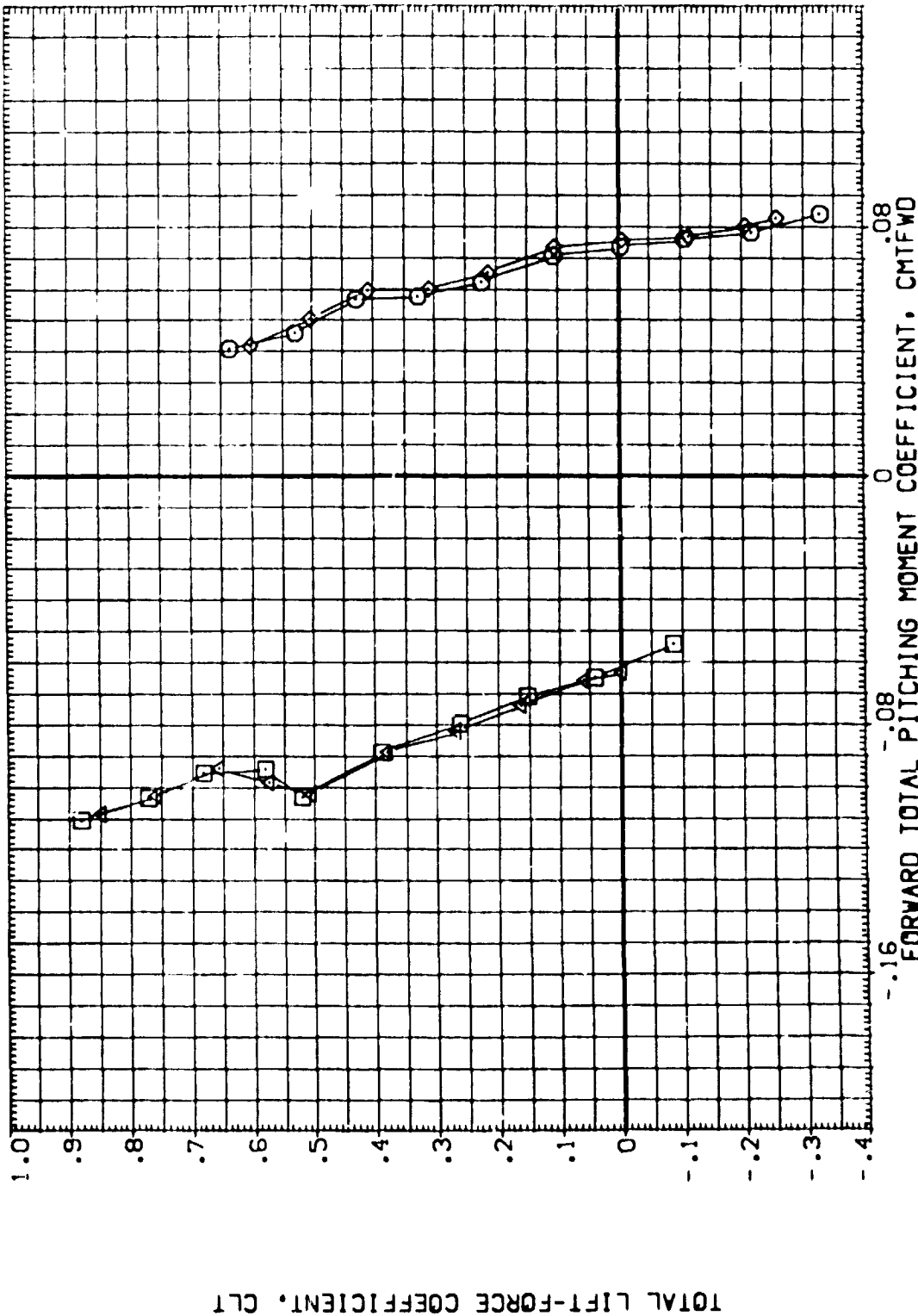


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (06R019) ARC 66-709 OAS9 0111A-N24
 (06R020) DATA NOT AVAILABLE
 (06R019) ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)
 (06R020) DATA NOT AVAILABLE

BETA ELEVON BDF LAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.31 IN.
 SCALE .01%

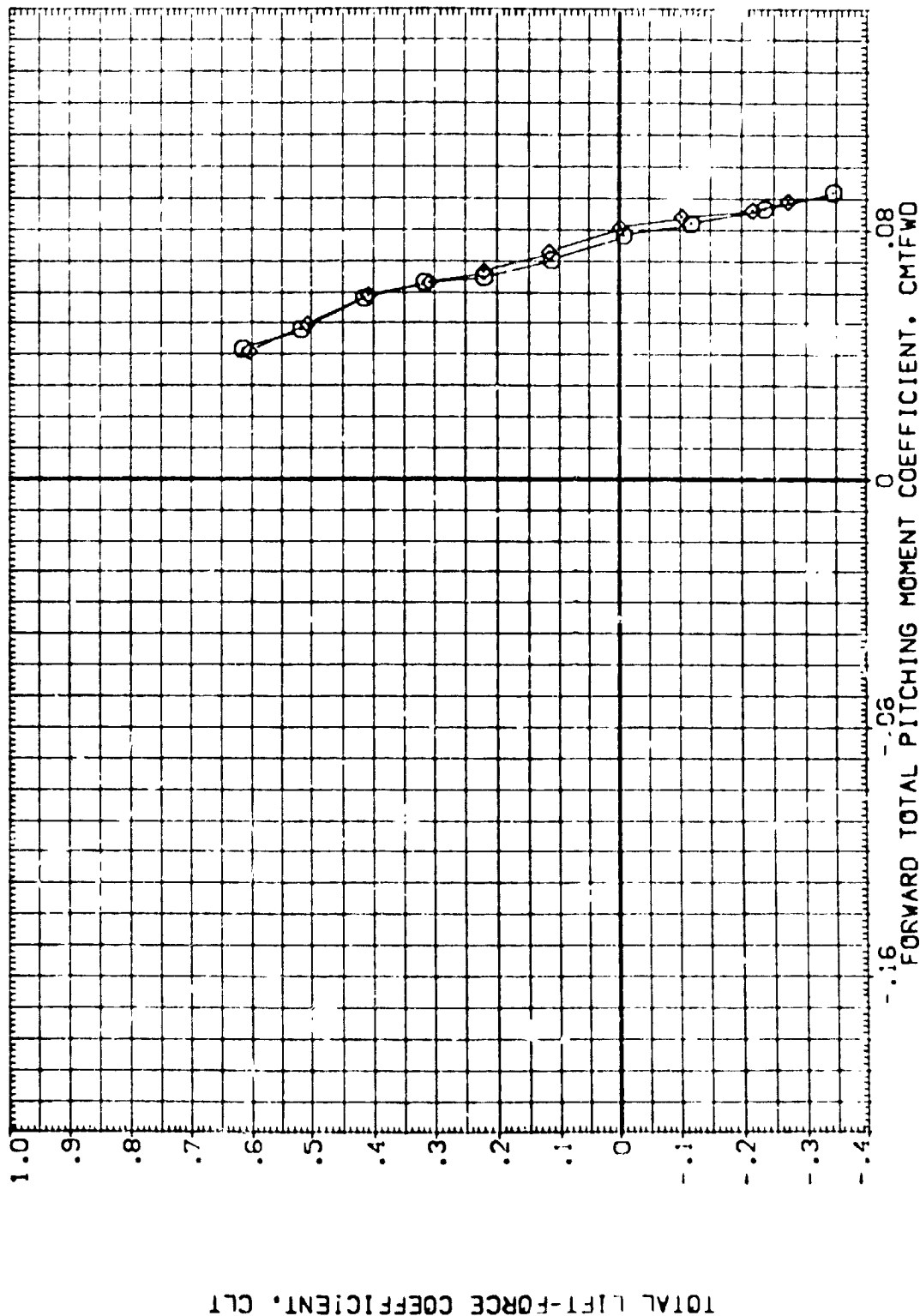


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
{ 06R019 }	ARC 66-709 0A59 0111A-(N24)	.000	.000	-11.700	SREF .5053 SQ.FT.
{ 06R020 }	ARC 66-709 0A59 0111A-(N24)	.000	15.000	-11.700	LREF .5835 FT.
{ 36R019 }	ARC 66-709 0A59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1713 IN.
{ 36R020 }	ARC 66-709 0A59 0111A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

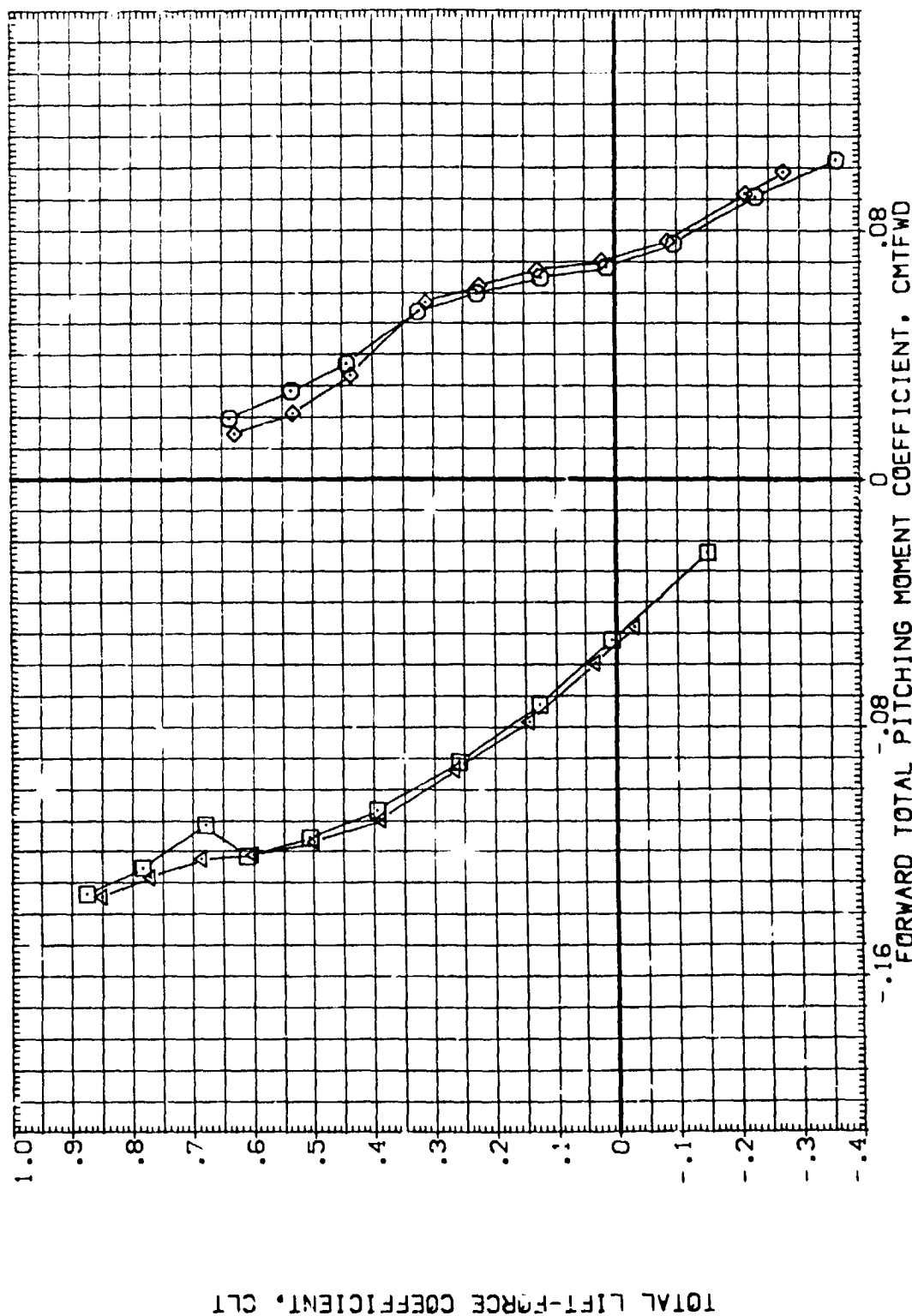


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(0)MACH = .90

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA		ELEVON		BOFLAP		REFERENCE INFORMATION	
(GER019)	□	ARC 66-709 QAS9 0111A-(N24)	.000	.000	-11.700	SREF	.6053	50. FT.			
(GER020)	◇	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF	.5935	FT.			
(3ER019)	×	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF	1.1710	FT.			
(3ER020)		DATA NOT AVAILABLE	.000	15.000	-11.700	XMPP	12.6255	IN.			
						YMPP	.0000	IN.			
						ZMPP	-.3750	IN.			
						SCALE	.0150				

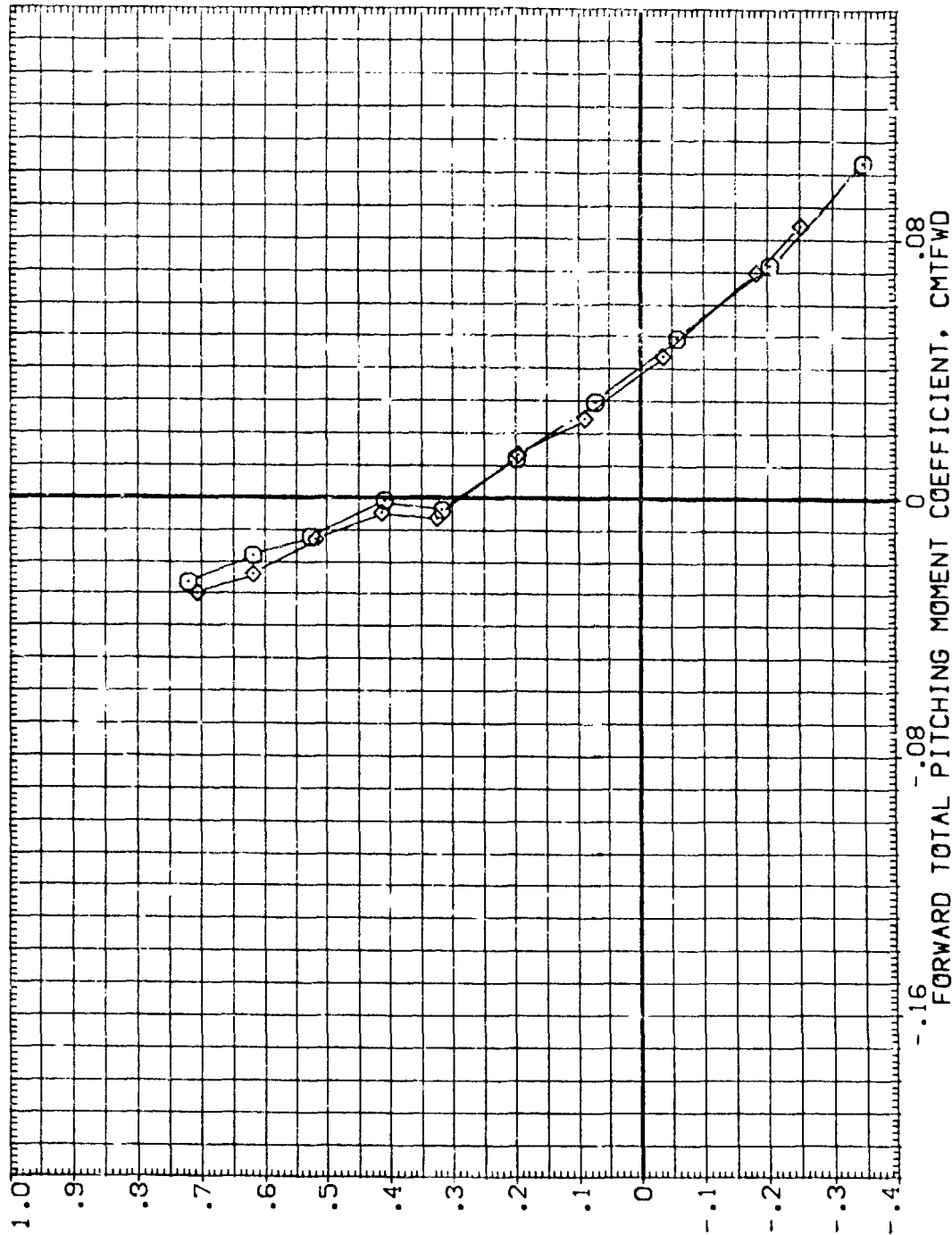


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(E)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER019) ARC 66-709 D459 011A-(N24)

(GER020) ARC 66-709 D459 011A-(N24)

(GER019) ARC 66-709 D459 011A-N24 (ADJUSTED FOR TARES)

(GER020) ARC 66-709 D459 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOX LAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

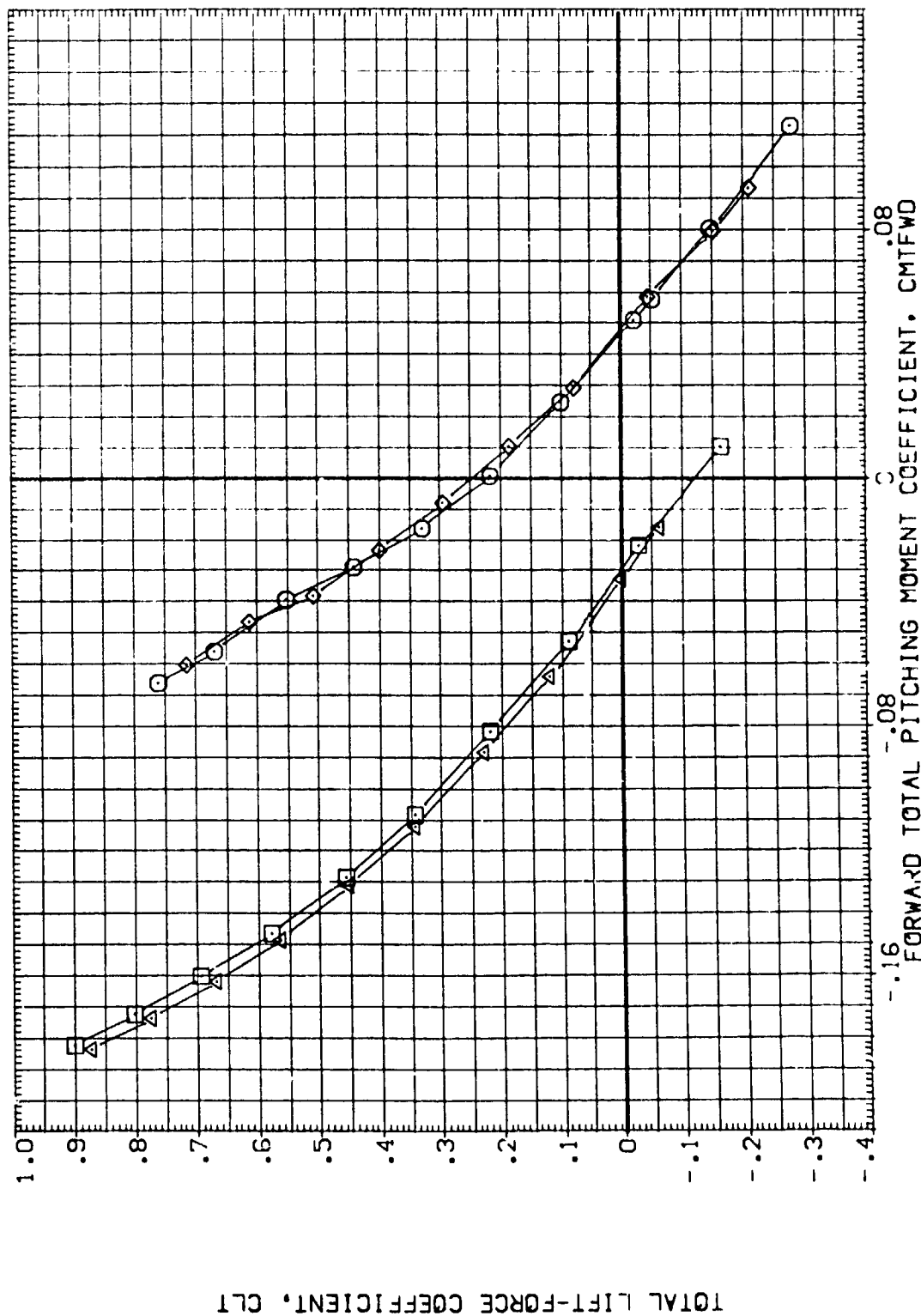


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER019) ARC 66-709 0A59 0A11A-(N24)

(GER020) ARC 66-709 0A59 0A11A-(N24)

(GER019) RC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

(GER020) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 IN.

YMRP 12.6255 IN.

ZMRP .0000 IN.

SCALE -.3750 IN.

 .0150

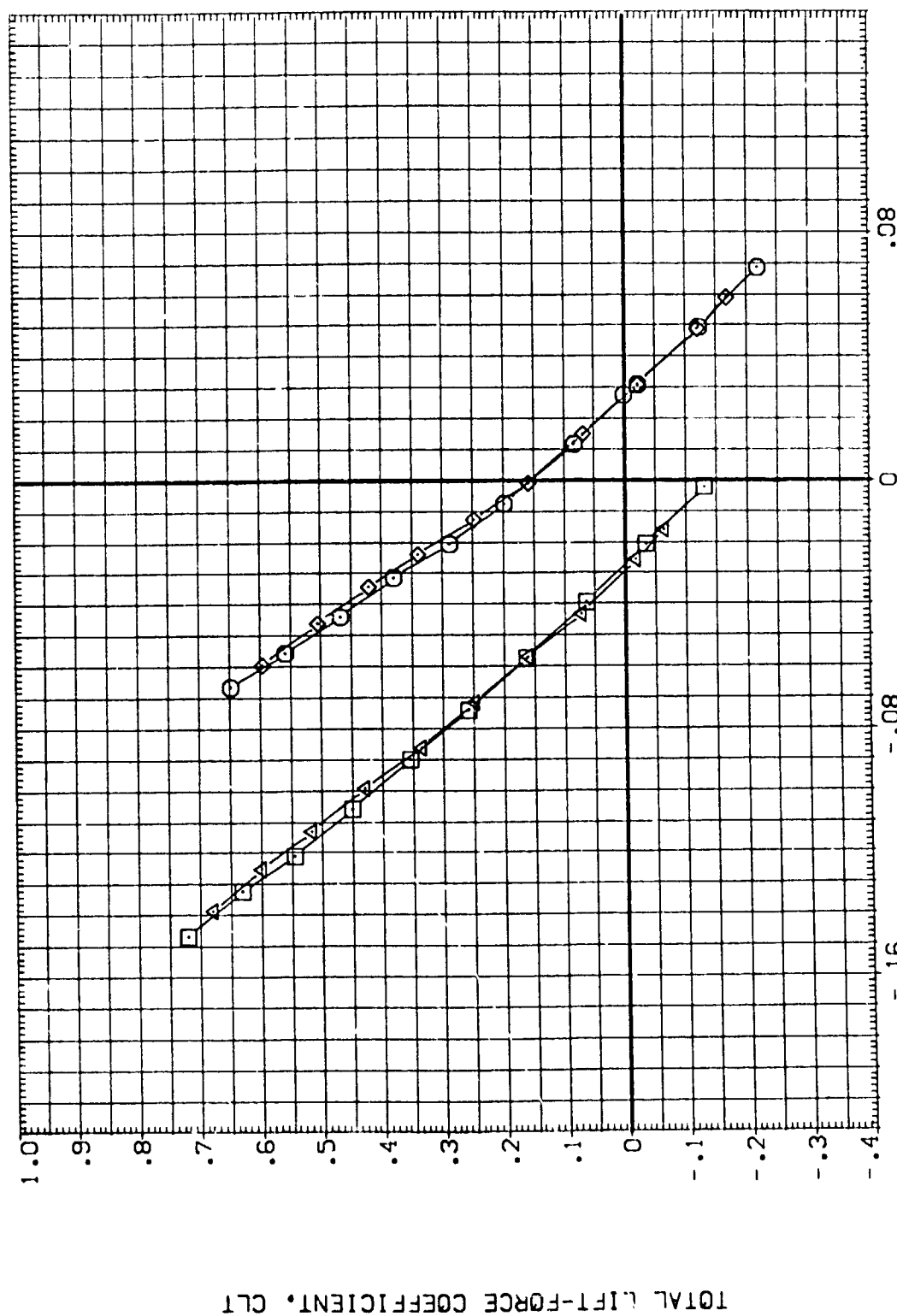


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.50

DATA SET SYMBOL

[GE019]

[GE020]

[GE019]

[GE020]

CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(N24)

ARC 66-709 0A59 0A11A-(N24)

ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA

.000

.000

.000

.000

ELEVON

.000

15.000

.000

15.000

BDELAP

-11.700

-11.700

-11.700

-11.700

REFERENCE INFORMATION

SREF 6053 SQ.FT.

LREF 5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

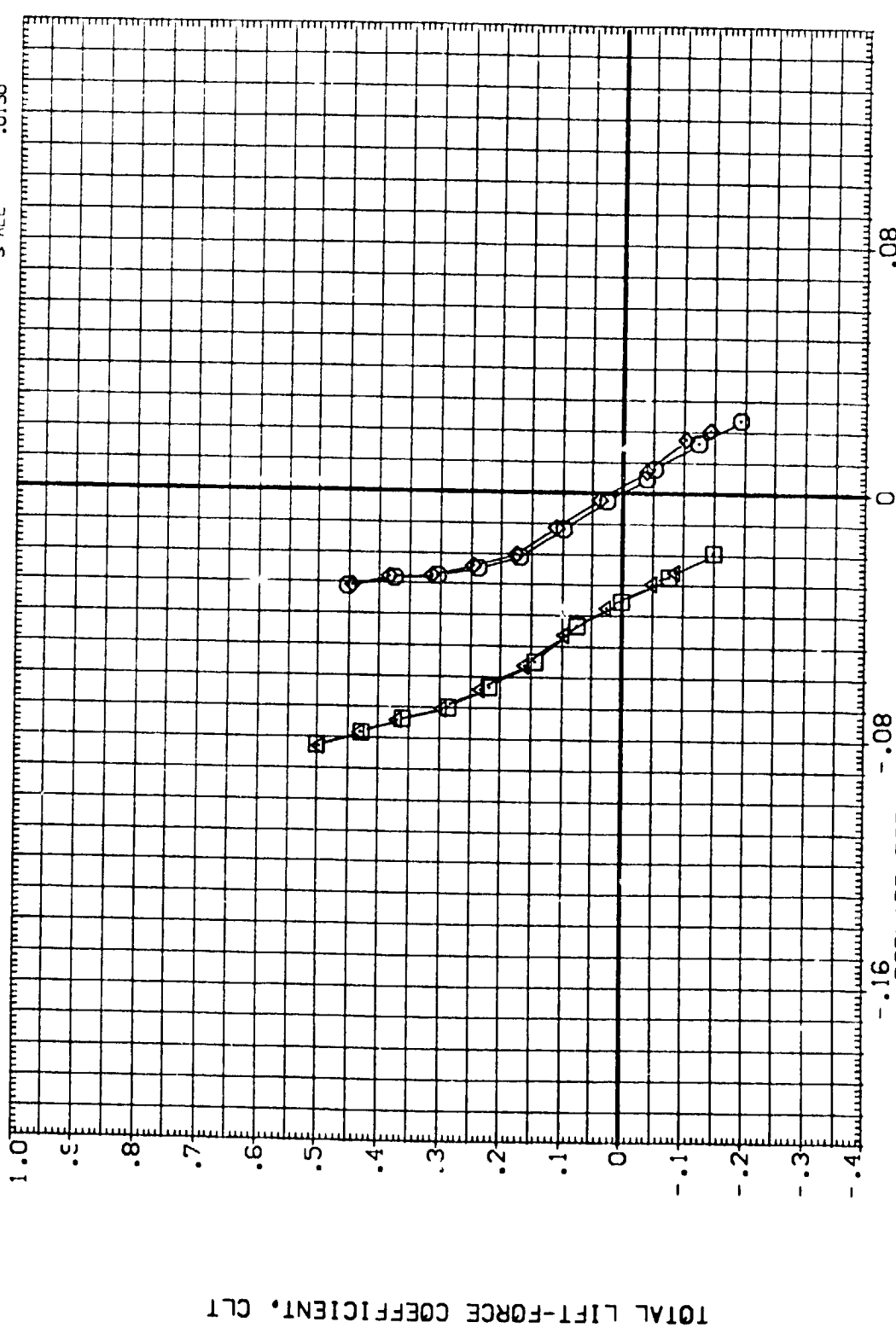


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER019) ARC 66-709 0A59 0A11A-(N24)

(GER020) ARC 66-709 0A59 0A11A-(N24)

(3ER019) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

(3ER020) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

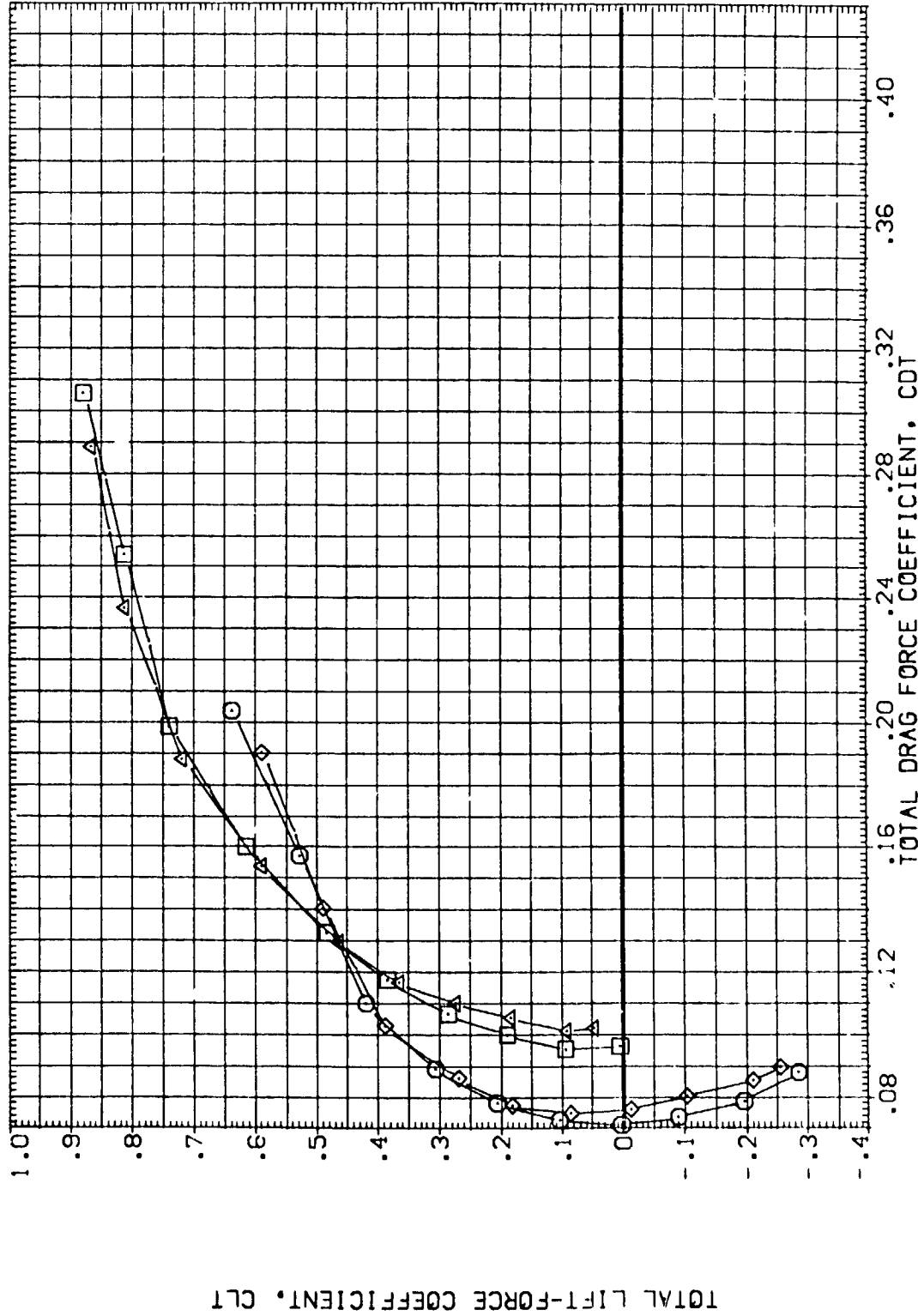


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER020)	ARC 66-709 0A59 0111A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(ZER019)	ARC 66-709 0A59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.17.0 IN.
(ZER020)	ARC 66-709 0A59 0111A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.

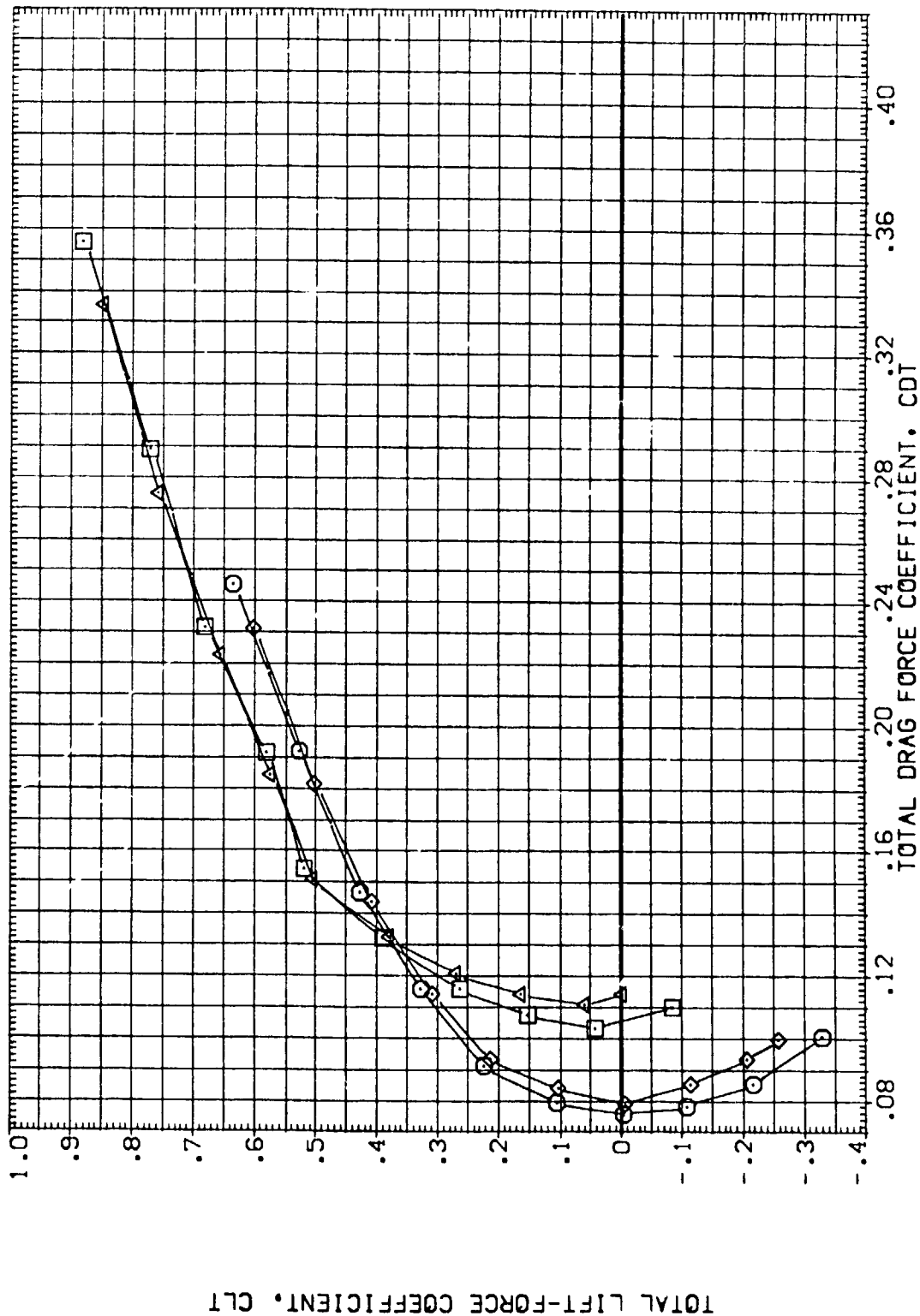


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .80

REFERENCE INFORMATION

SREF	.6053	SO.FT.
LREF	.5936	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA ELEVON BOFLAP

BETA	.000	ELEVON	.000	BOFLAP	-11.700
	.000		15.000		-11.700
	.000		.000		-11.700
	.000		15.000		-11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER019)	ARC 66-709 OAS9 0111A-N24
(GER020)	DATA NOT AVAILABLE
(3ER019)	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)
(3ER020)	DATA NOT AVAILABLE

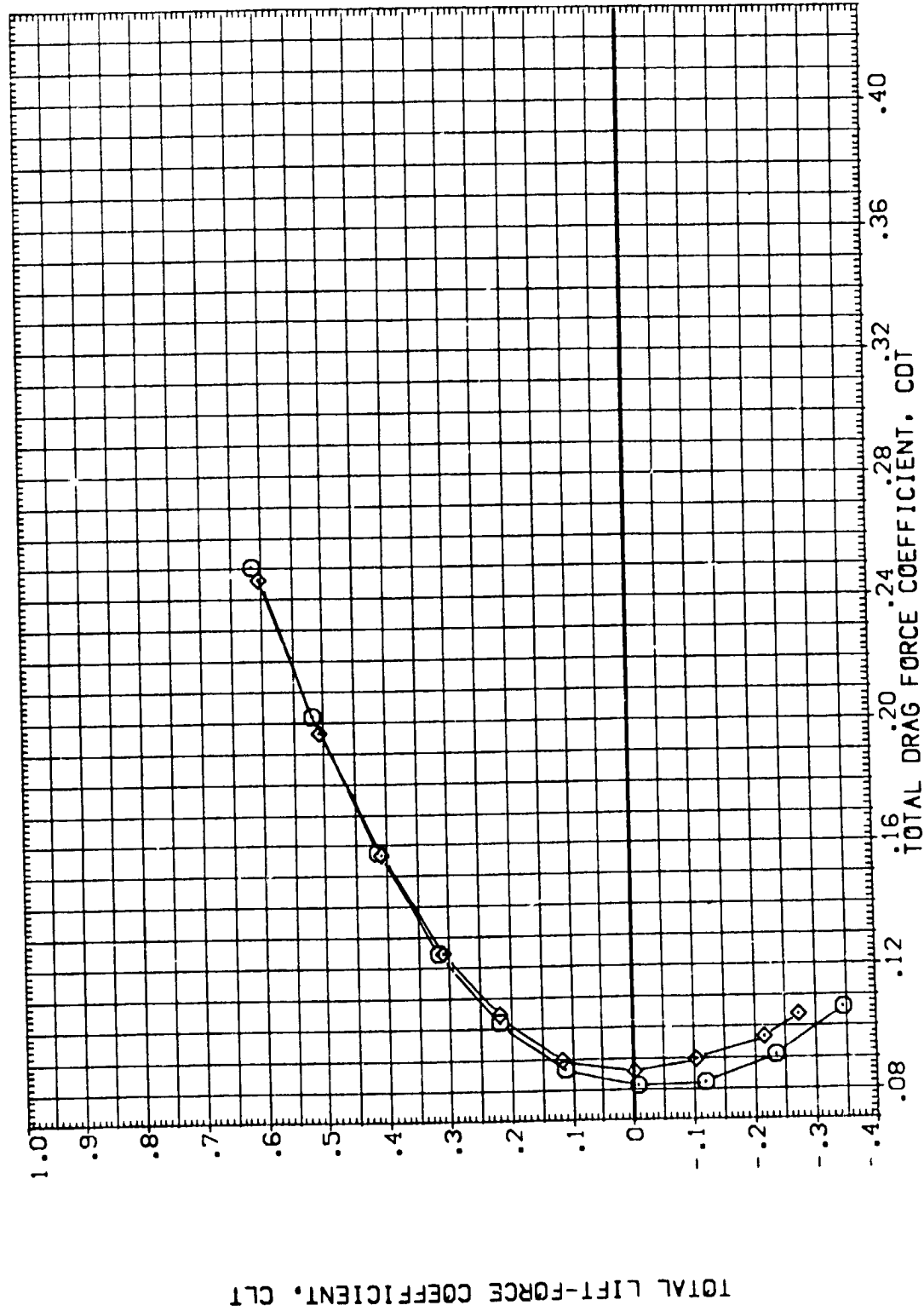


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .85

TOTAL LIFT-FORCE COEFFICIENT, CLT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(GER020)	ARC 66-709 0A59 0A11A-(N24)	.000	.15.000	-11.700	LREF .5935 FT.
(GER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(GER020)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.15.000	-11.700	XMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

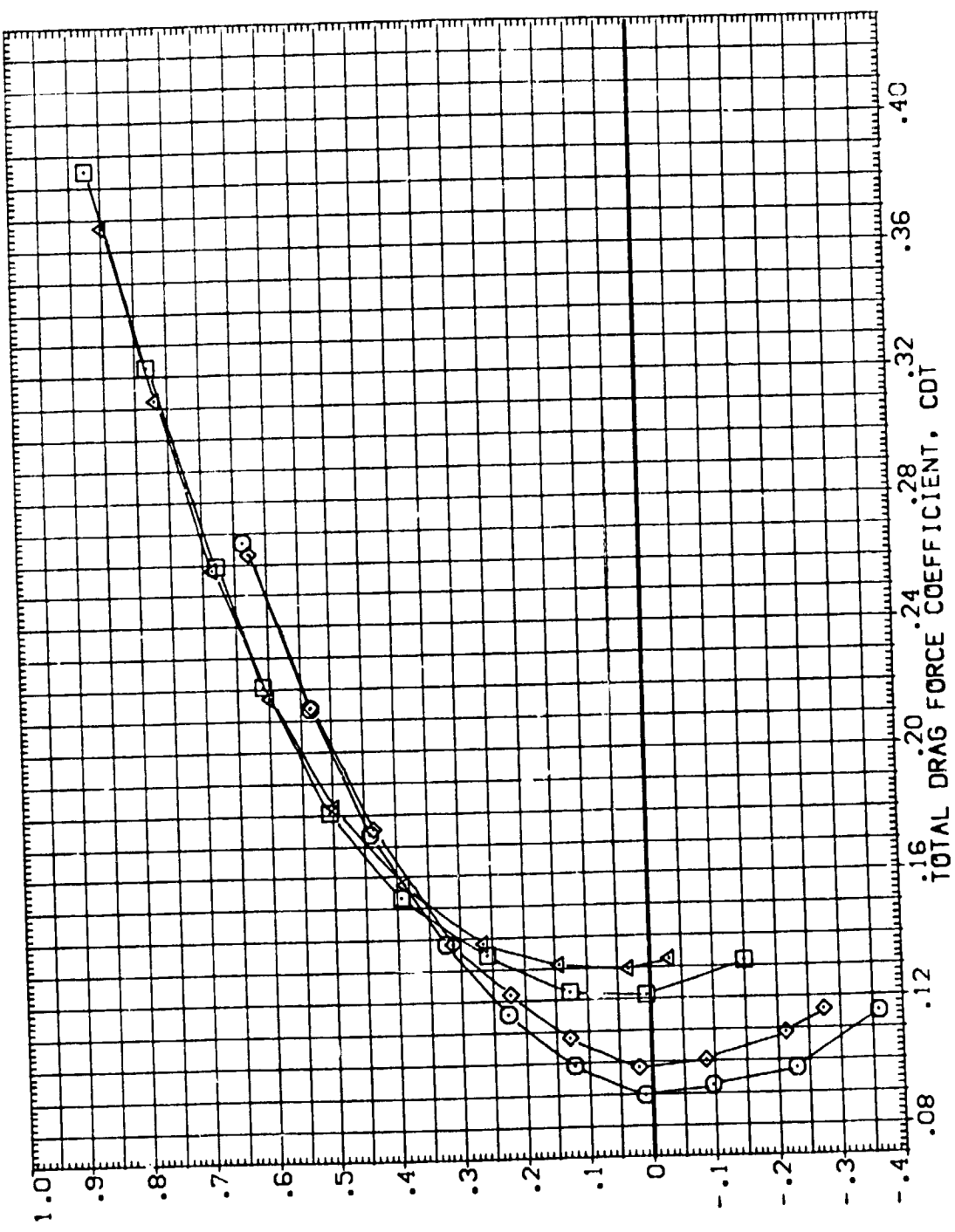


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(D)MACH = .90

DATA SET SYMBO	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(06R019)	ARC 66-709 QAS9 Q111A-N24	.000	.000	-11.700	SREF .6053 50. FT.
(06R020)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(36R019)	ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(36R020)	DATA NOT AVAILABLE	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

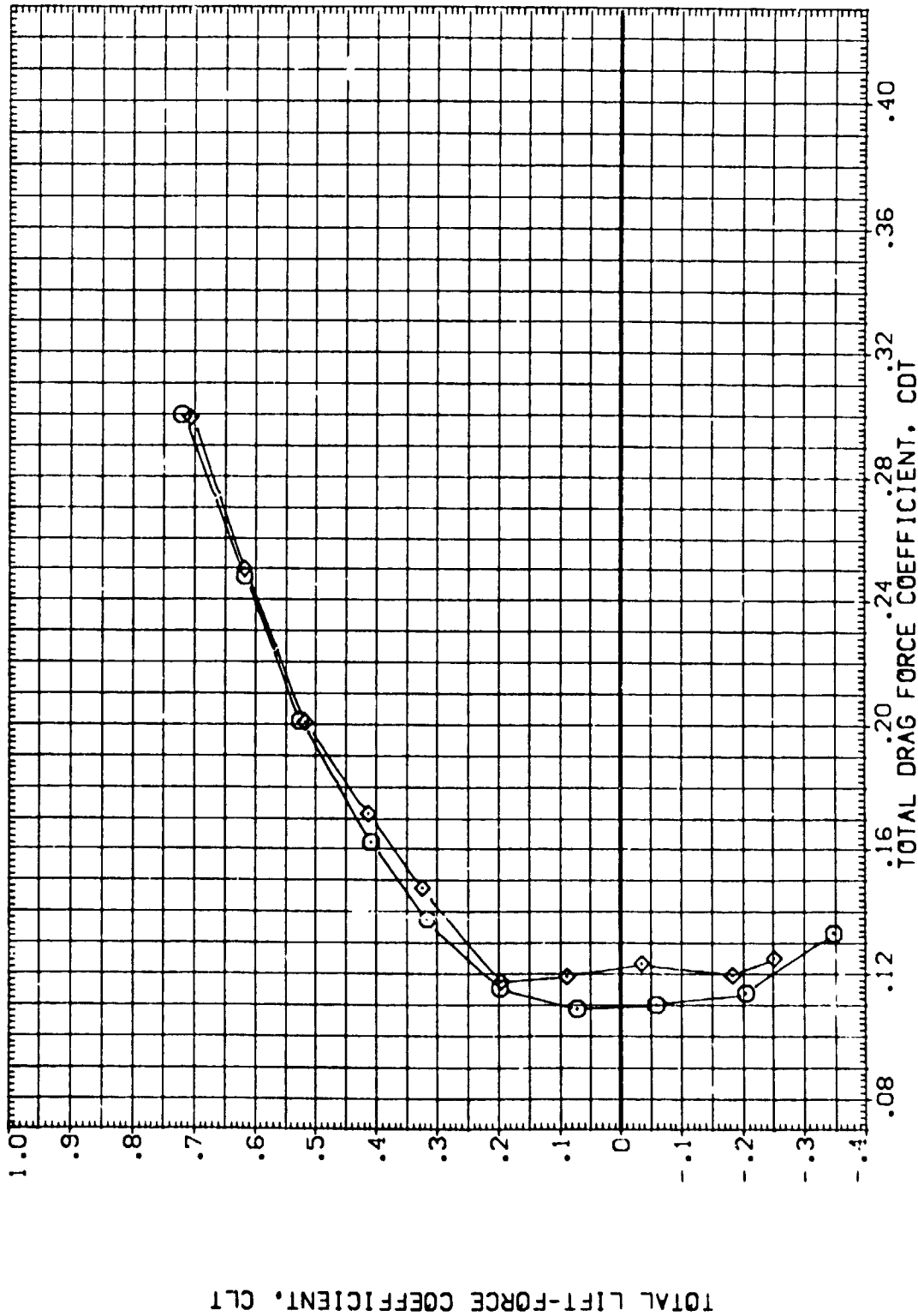


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(E)MACH = .95

DATA SET SYMBOL: (GER019) (GER020) (XER019) (XER020)

CONFIGURATION DESCRIPTION: ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES) ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES) ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)

BETA: .000 .000 .000 .000

ELEVON: .000 15.000 .000 15.000

BOFLAP: -11.700 -11.700 -11.700 -11.700

REFERENCE INFORMATION: SREF .6053 50. FT. LREF .5935 FT. BREF 1.1710 IN. XMRP 12.6255 IN. YMRP .0000 IN. ZMRP -.3750 IN. SCALE .0150

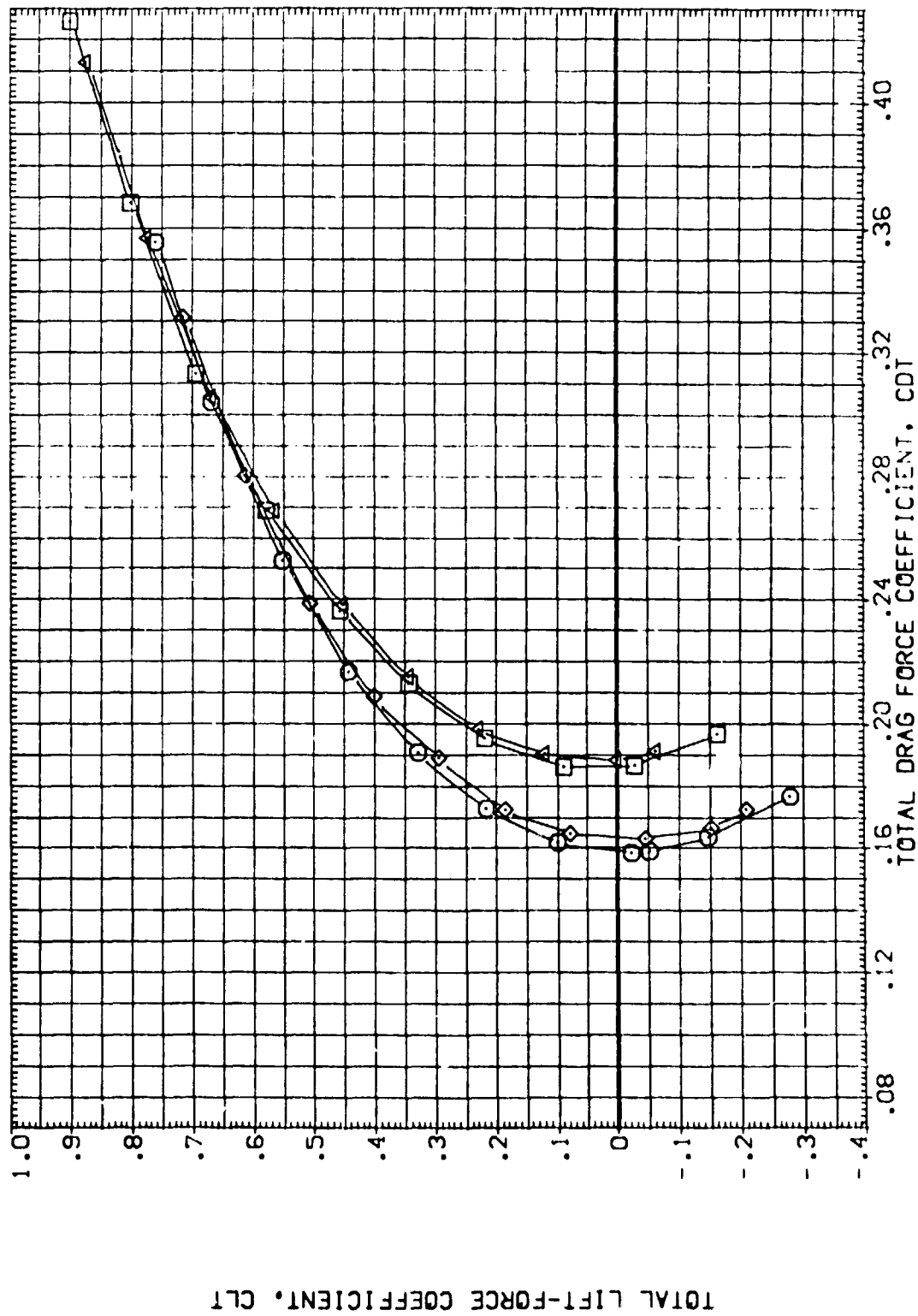


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(ZER019)	ARC 66-709 QAS9 0111A-N24	.000	.000	-11.700	SREF .6053 50.FT.
(ZER020)	ARC 66-709 QAS9 0111A-N24	.000	.000	-11.700	LREF .5935 FT.
(ZER019)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(ZER020)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.

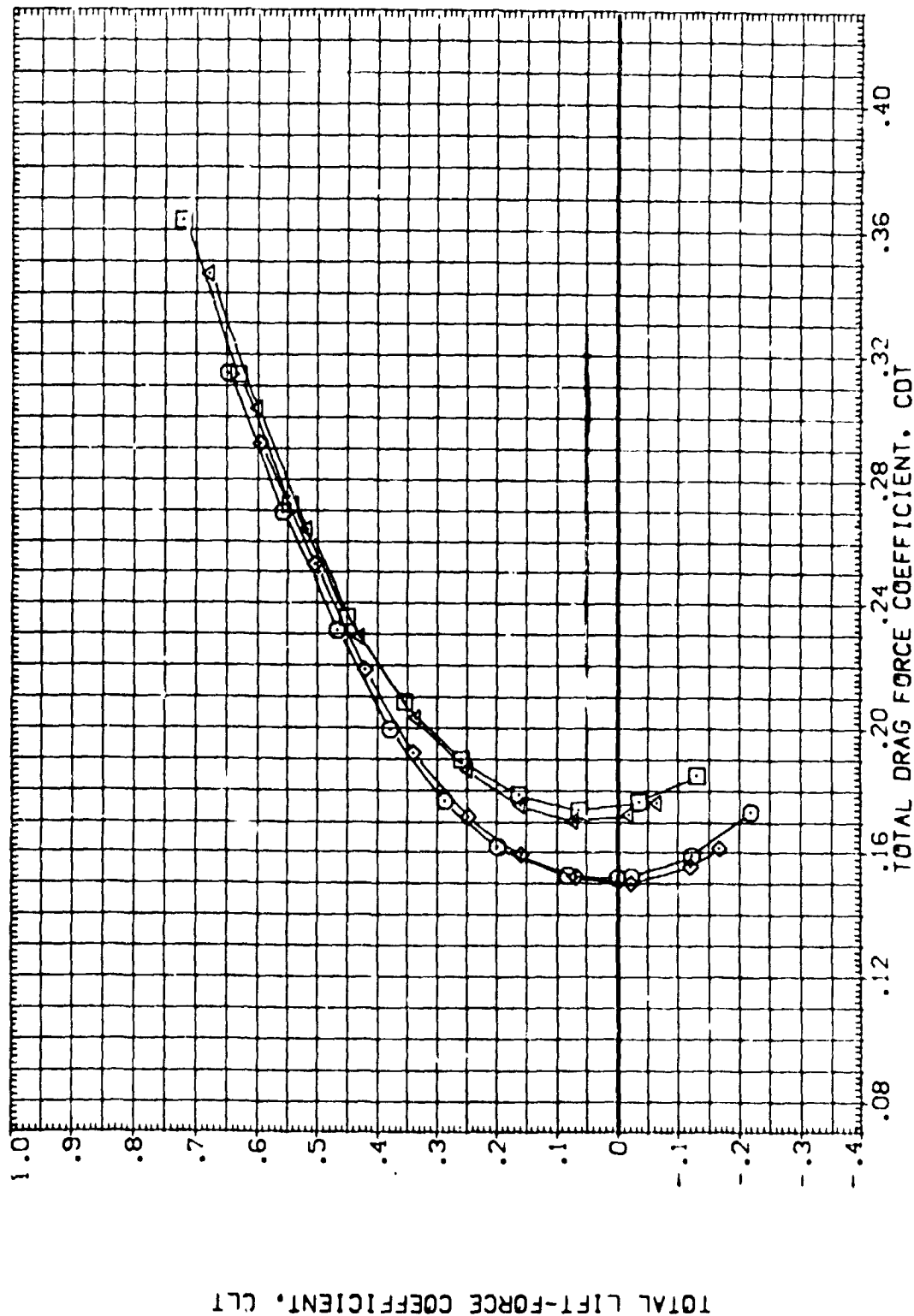


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(ZERO19)	ARC 66-709 DA59 0111A-(N24)	.000	.000	-11.700	SREF 6053 50 FT.
(ZERO20)	ARC 66-709 DA59 0111A-(N24)	.000	15.000	-11.700	LREF 5935 FT.
(ZERO19)	ARC 66-709 DA59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 11710 IN.
(ZERO20)	ARC 66-709 DA59 011A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XPRP 12.6235 IN.
					YPRP .0000 IN.
					ZPRP -.3750 IN.
					SCALE .0150

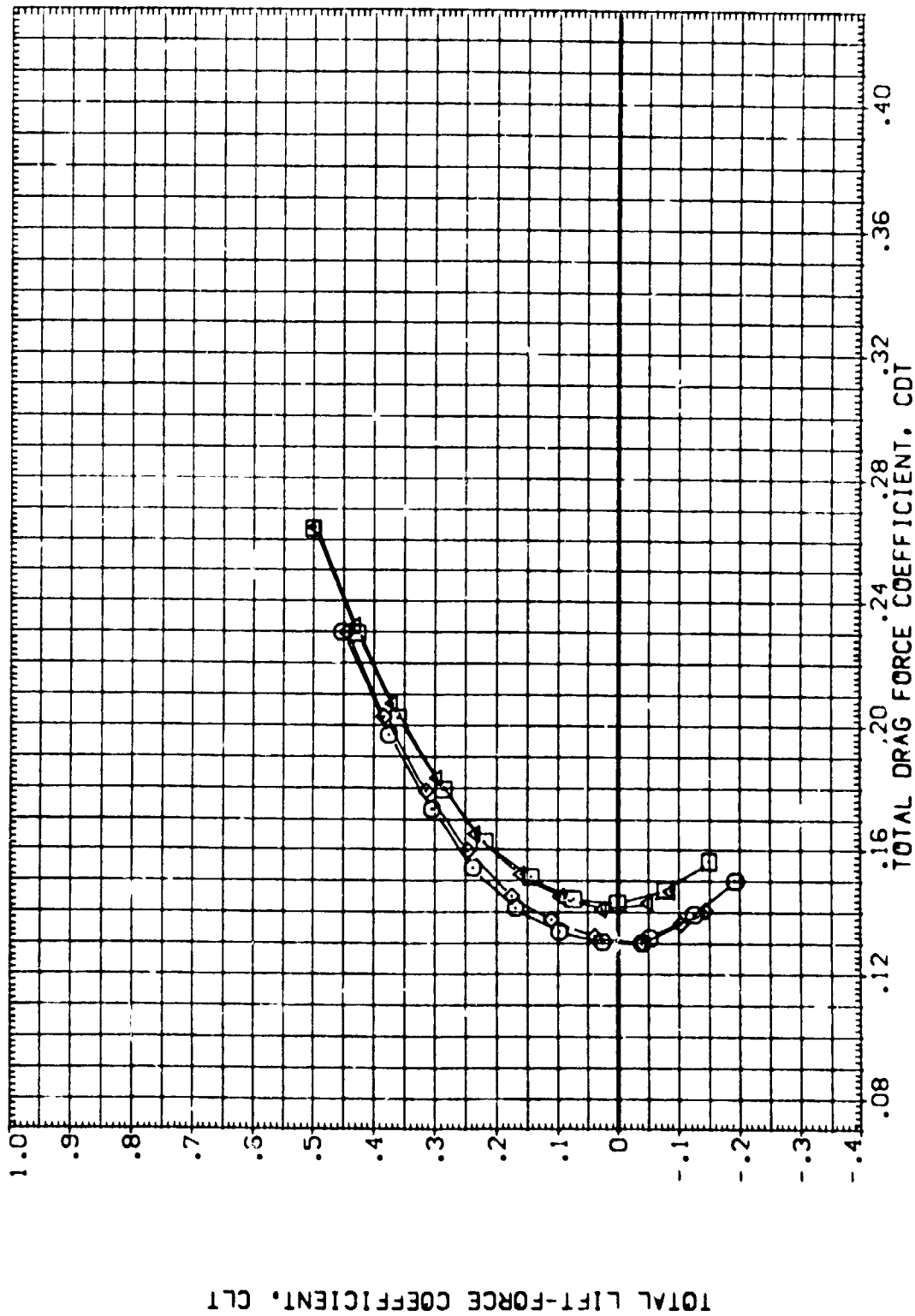


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GE0019) ARC 66-709 0A59 0A11A-(N24)

(GE0020) ARC 66-709 0A59 0A11A-(N24)

(GE0019) ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)

(GE0020) ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDF LAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .593 FT.

BREF 1.1710 IN.

XHP 12.6255 IN.

ZHP -.0000 IN.

ZHP -.3750 IN.

SCALE .0150

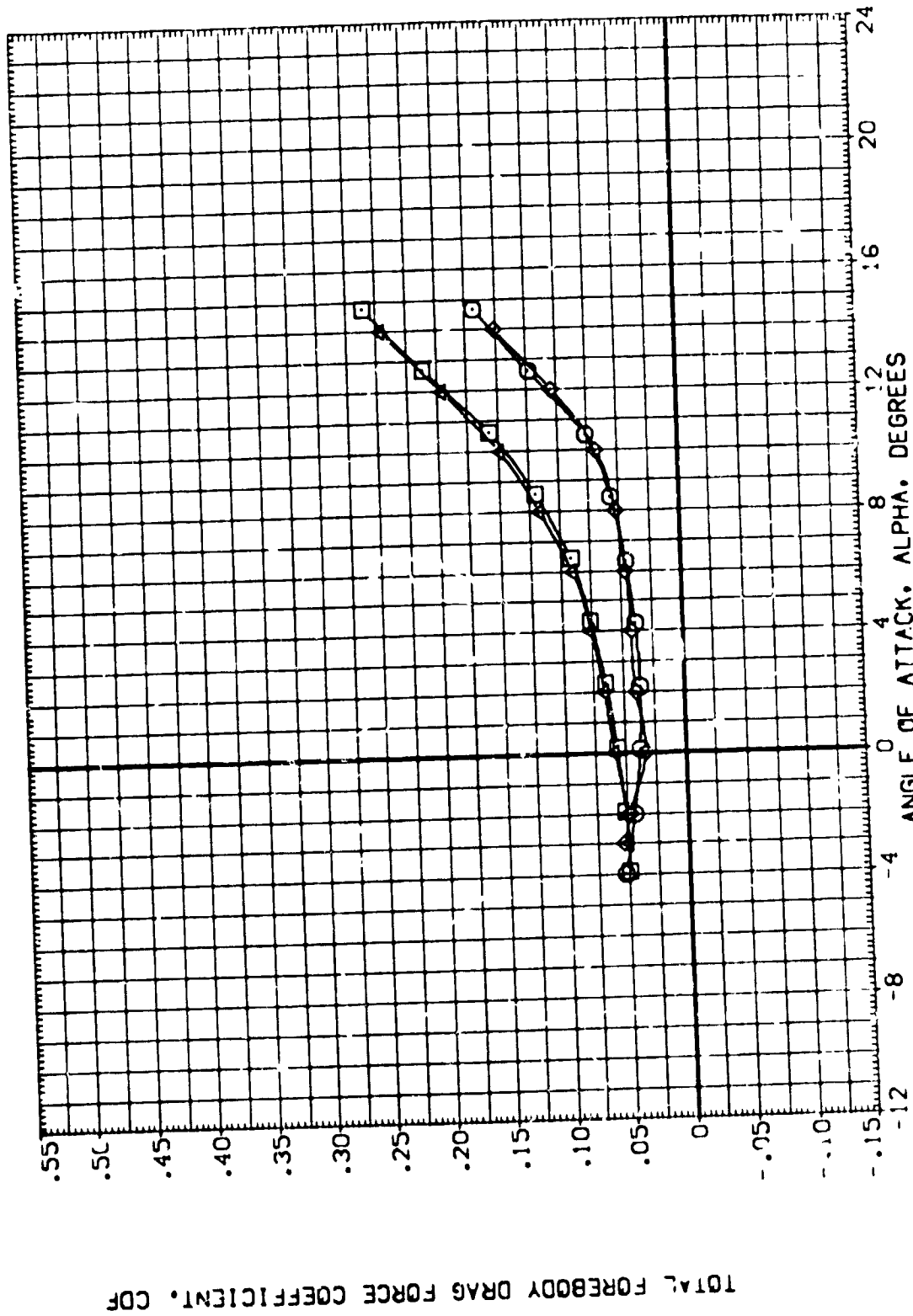


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A) MACH .60

DATA SET SYMBOL

[GER018]

[GER020]

[GER019]

[GER020]

CONFIGURATION DESCRIPTION

ARC 66-709 0459 0A11A-(N24)

ARC 66-709 0459 0A11A-(N24)

ARC 66-709 0459 0A11A-N24 (ADJUSTED FOR TARES)

ARC 66-709 0459 0A11A-N24 (ADJUSTED FOR TARES)

BETA

0.00

0.00

0.00

0.00

ELEVON

0.00

15.000

0.00

15.000

BOFLAP

-11.700

-11.700

-11.700

-11.700

REFERENCE INFORMATION

SREF 6053 50.FT.

LREF 5936 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP 0.0000 IN.

ZMRP -0.3750 IN.

SCALE 0.150

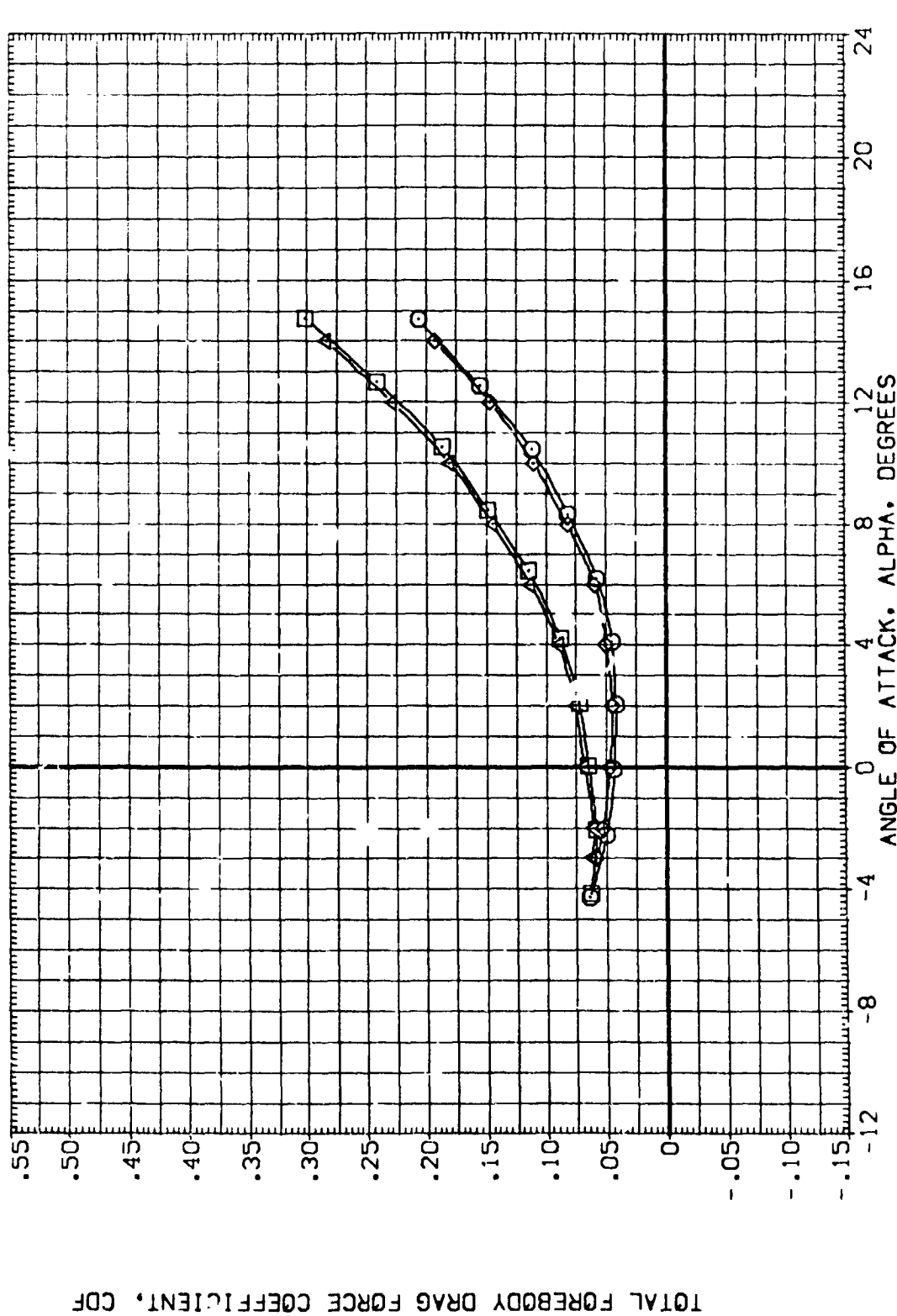


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .80

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5936	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA	ELEVON	BOFLAP
.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

DATA SET SYMBOL

CONFIGURATION DESCRIPTION
ARC 66-709 0459 0411A-(N24)
DATA NOT AVAILABLE
ARC 66-709 0459 0411A-N24 (ADJUSTED FOR TARES)
DATA NOT AVAILABLE

TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

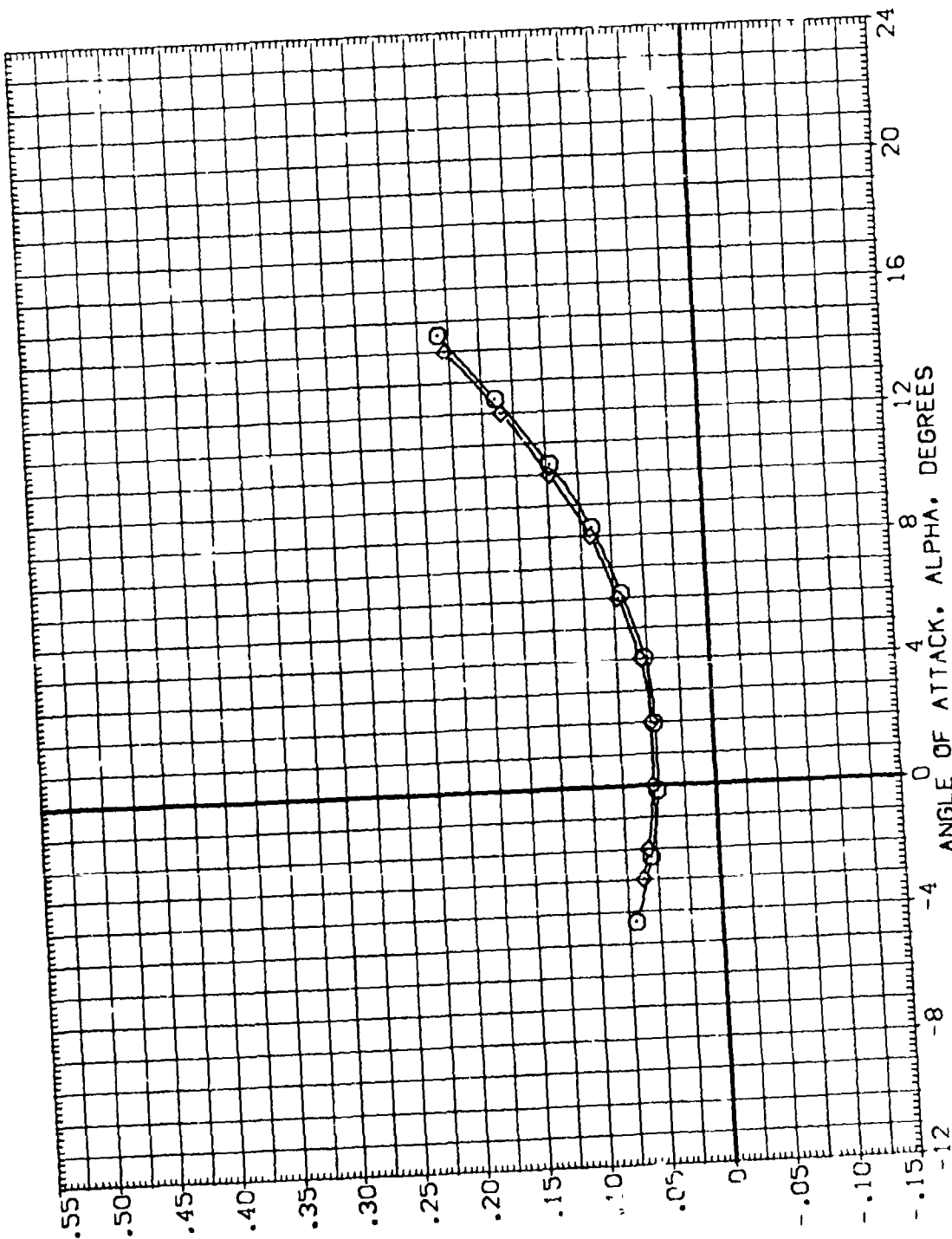


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GERO19) Q ARC 66-709 QAS9 Q111A-(N24)
 (GERO20) X ARC 66-709 QAS9 Q111A-(N24)
 (GERO19) X ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)
 (GERO20) X ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOX LAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

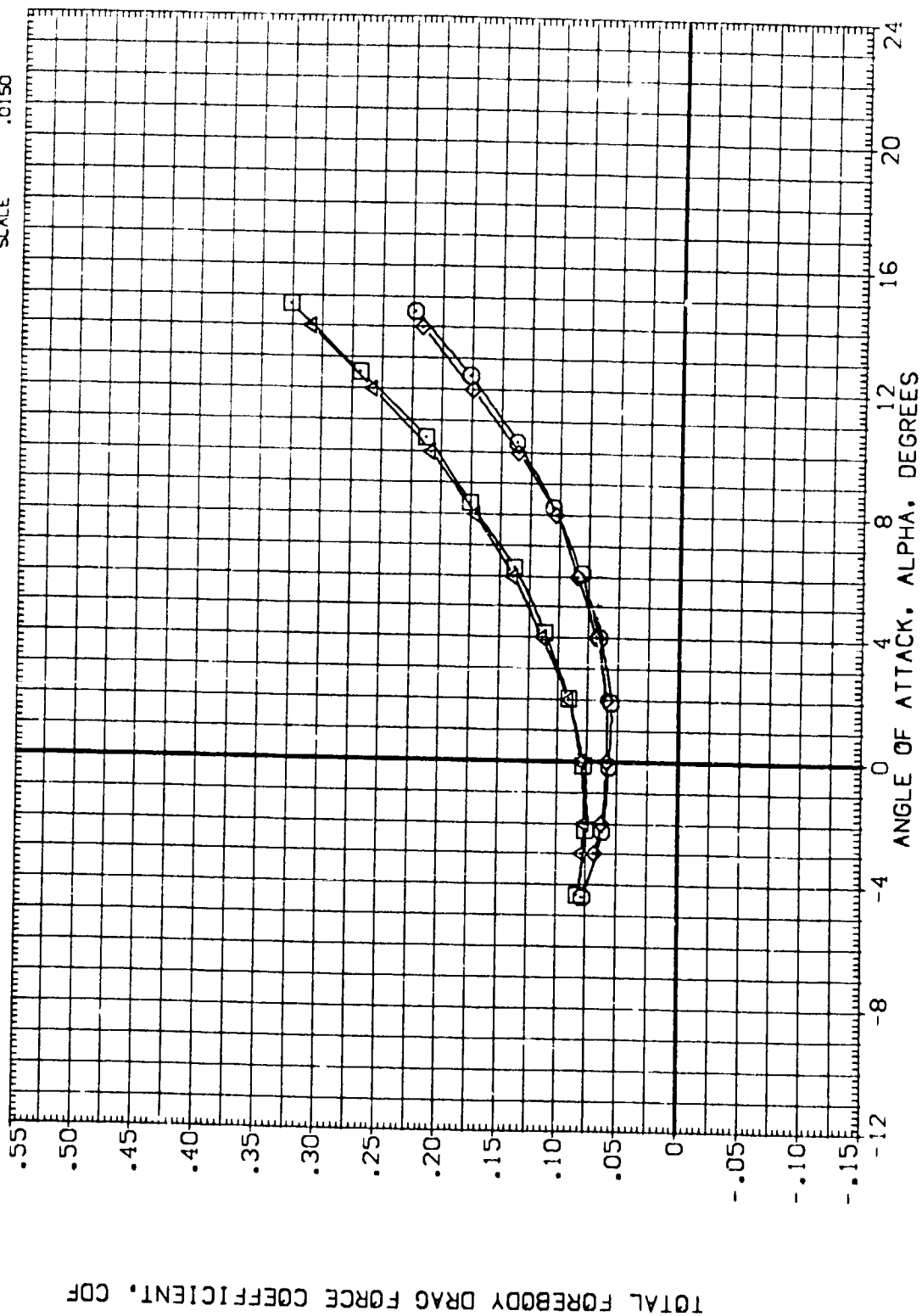


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(COMACH) = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GERO19) ARC 66-709 OAS9 011A-(N24)
 (GERO20) DATA NOT AVAILABLE
 (XERO19) ARC 66-709 OAS9 011A-N24 (ADJUSTED FOR TARES)
 (XERO20) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SPREF .6053 SQ.FT.
 LRREF .5935 FT.
 BRREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

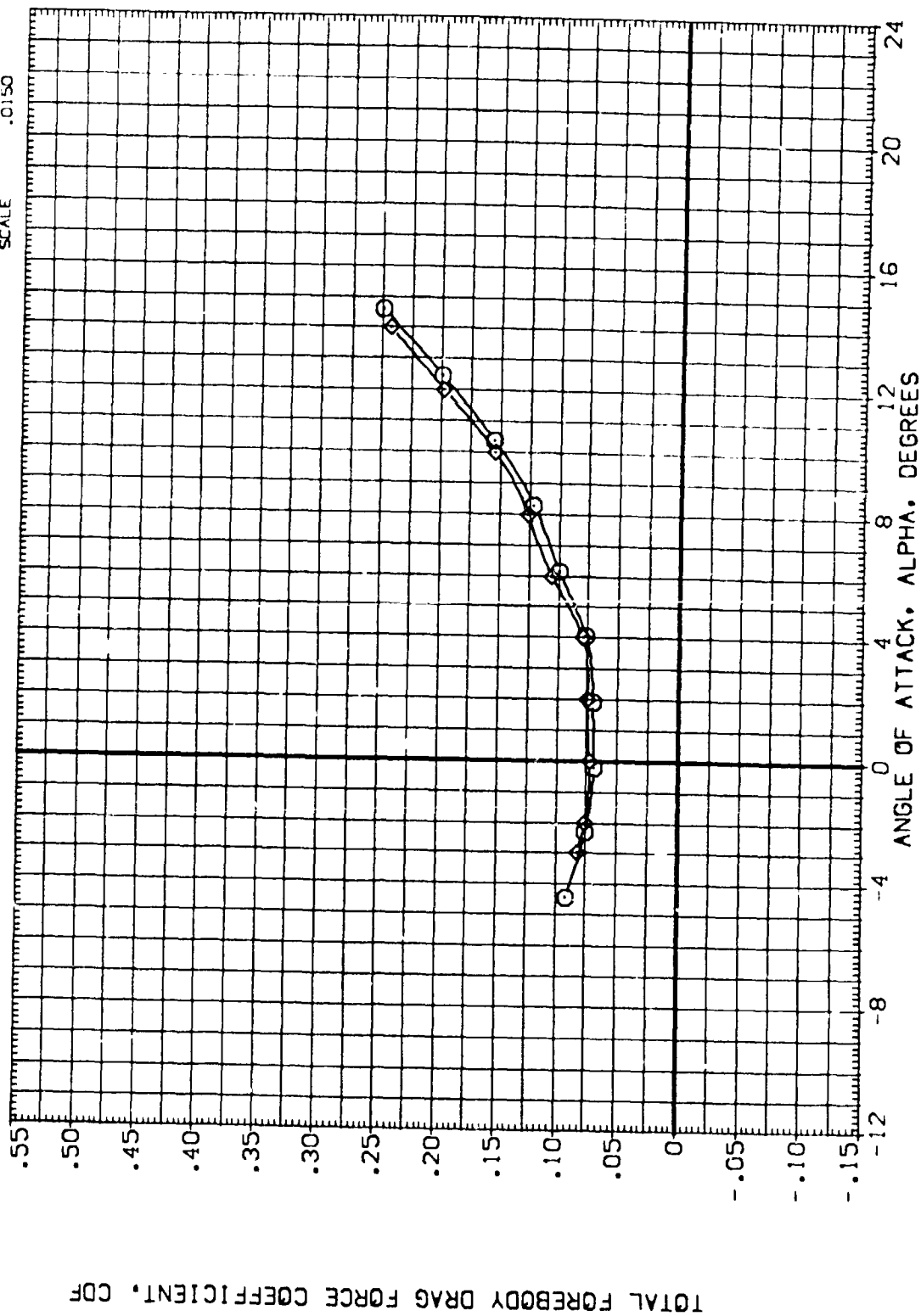


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER019)	ARC 66-709	0A59	0A11A-(N24)
(GER020)	ARC 66-709	0A59	0A11A-(N24)
(GER019)	ARC 66-709	0A59	011A-N24 (ADJUSTED FOR TARES)
(GER020)	ARC 66-709	0A59	011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

REFERENCE INFORMATION

SREF	.6053	SQ.FT.
LREF	.5936	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

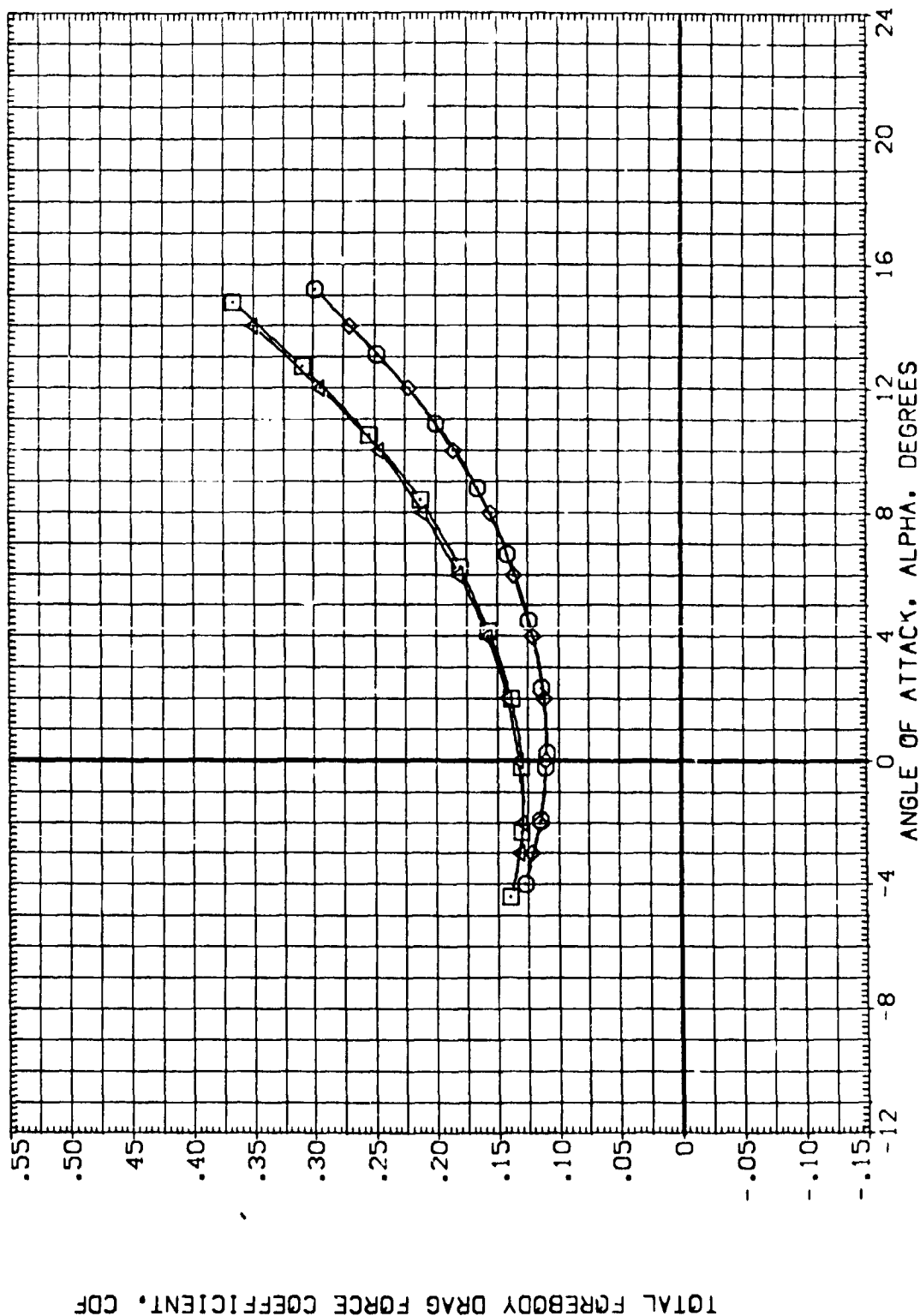


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER020)	ARC 66-709 0A59 0A11A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(ZER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(ZER020)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

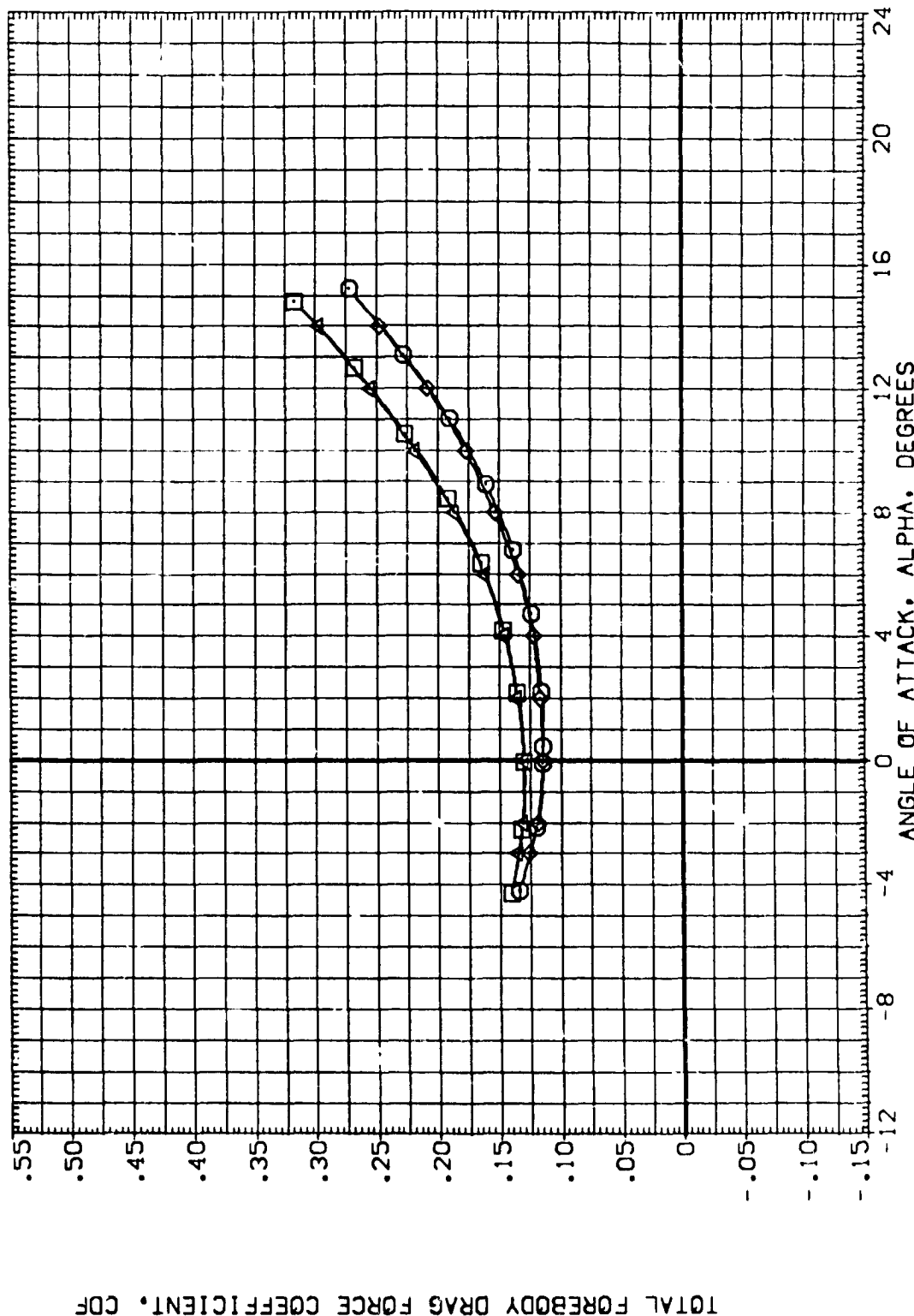


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 DASS DA11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(ZER020)	ARC 66-709 DASS DA11A-(N24)	.000	15.000	-11.700	LREF .9535 FT.
(ZER019)	ARC 66-709 DASS DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(ZER020)	ARC 66-709 DASS DA11A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

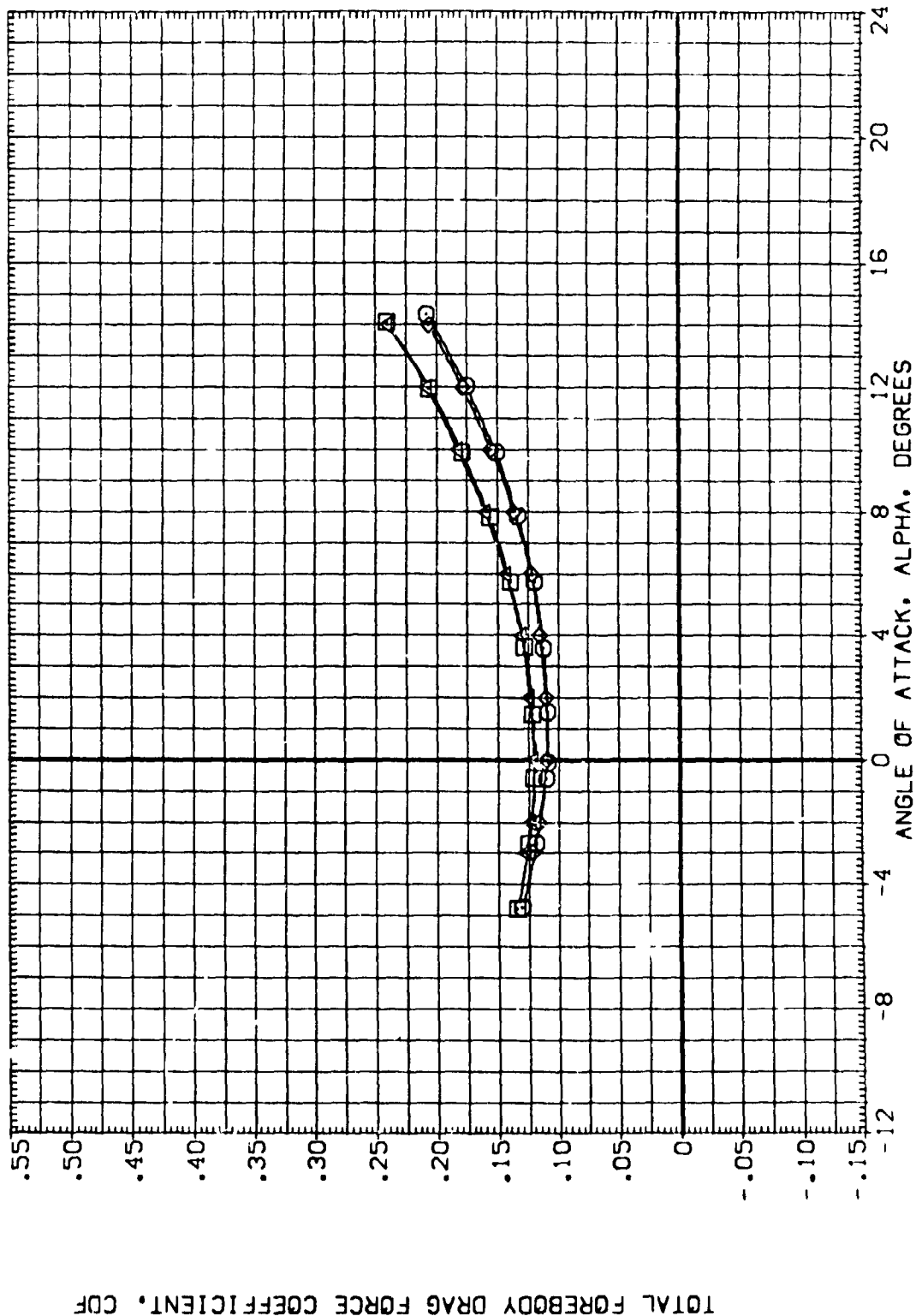


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 OAS9 O11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(GER020)	ARC 66-709 OAS9 O11A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(3EPJ19)	ARC 66-709 OAS9 O11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(3ER020)	ARC 66-709 OAS9 O11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.

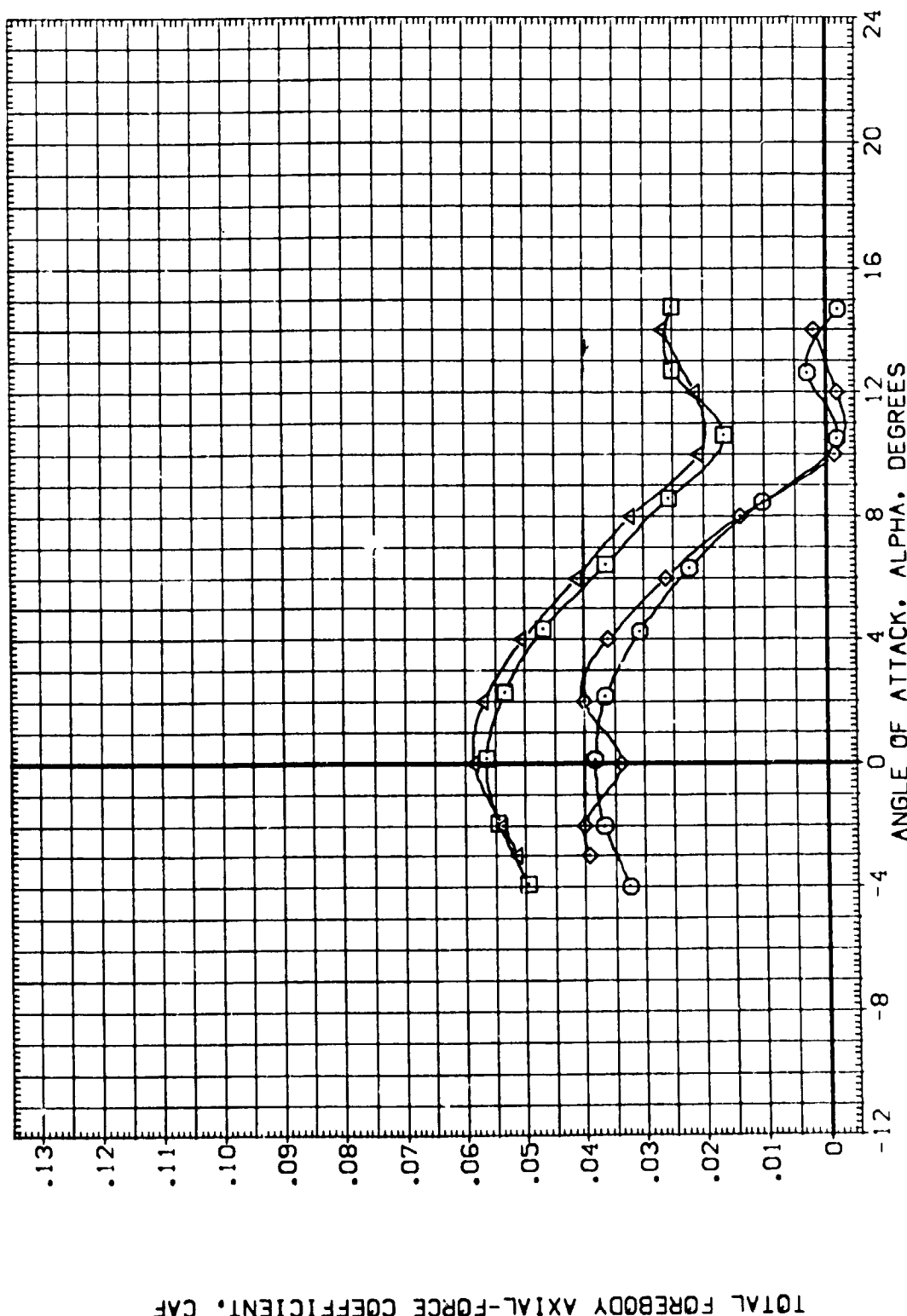


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GER019) ARC 66-709 0A59 0A11A-(N24)
 (GER020) ARC 66-709 0A59 0A11A-(N24)
 (XER019) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
 (XER020) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

TOTAL FOREBODY AXIAL-FORCE COEFFICIENT, C_{AF}

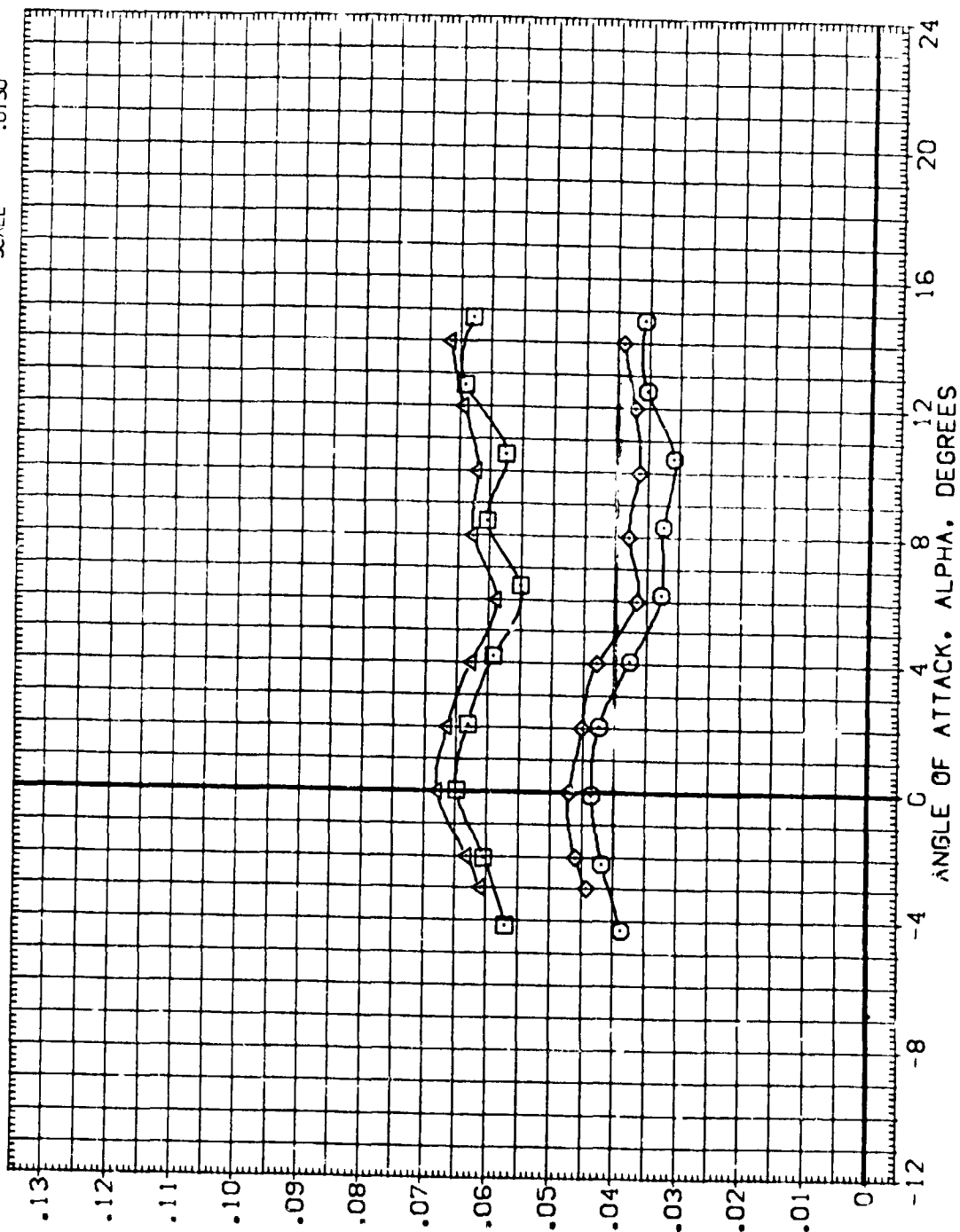


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT
(GER020)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER019)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(GER020)	DATA NOT AVAILABLE	.000	15.000	-11.700	XMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.

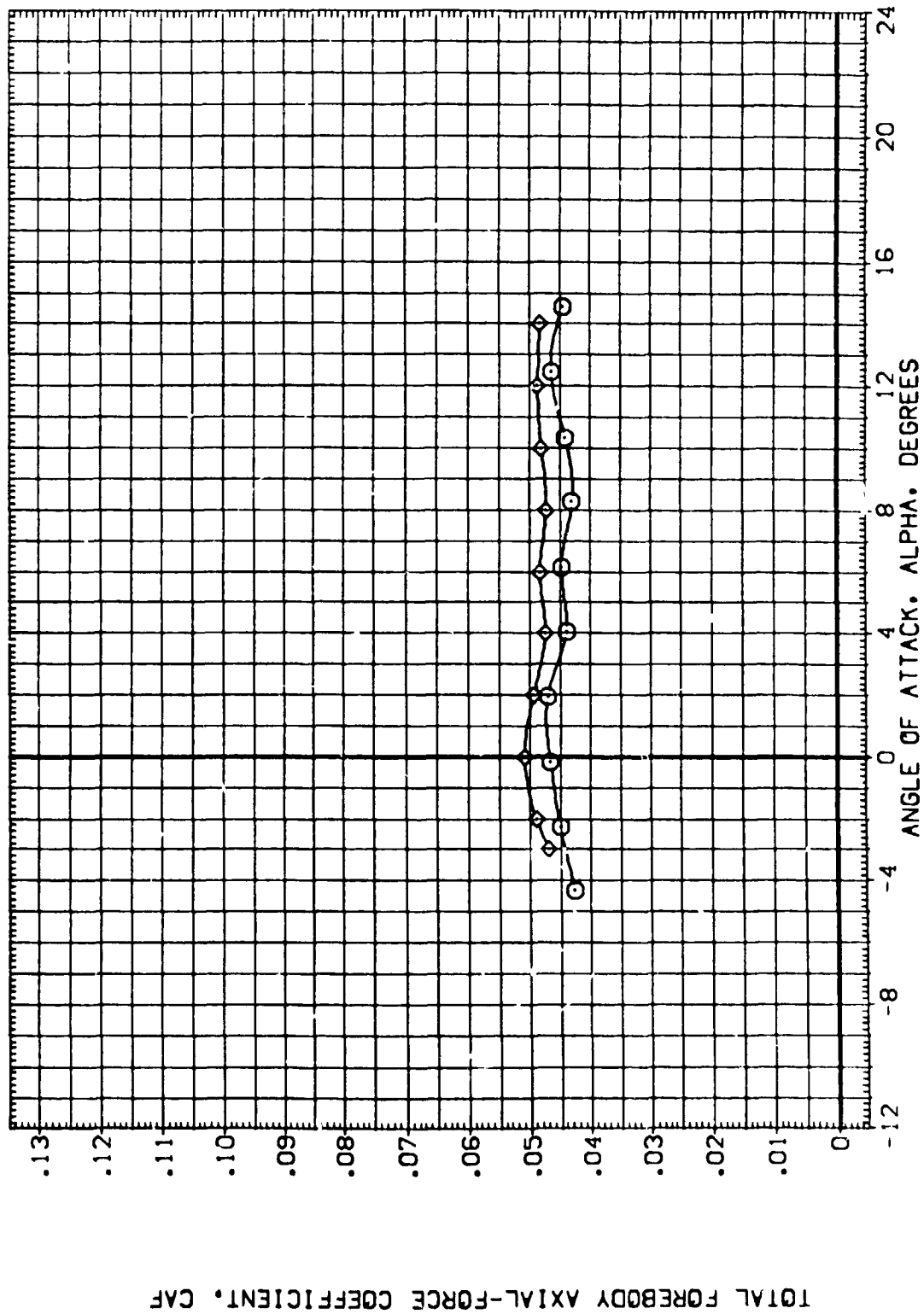


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .85

DATA SET SYMBOL CO. CONFIGURATION DESCRIPTION

(GERO19) ARC 66-709 CAS9 0111A-(N24)

(GERO20) ARC 66-709 CAS9 0111A-(N24)

(3ERO19) ARC 66-709 CAS9 0111A-N24 (ADJUSTED FOR TARES)

(3ERO20) ARC 66-709 CAS9 0111A-N24 (ADJUSTED FOR TARES)

BETA

ELEVON

BDF LAP

.000

.000

-11.700

.000

15.000

-11.700

.000

.000

-11.700

.000

15.000

-11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

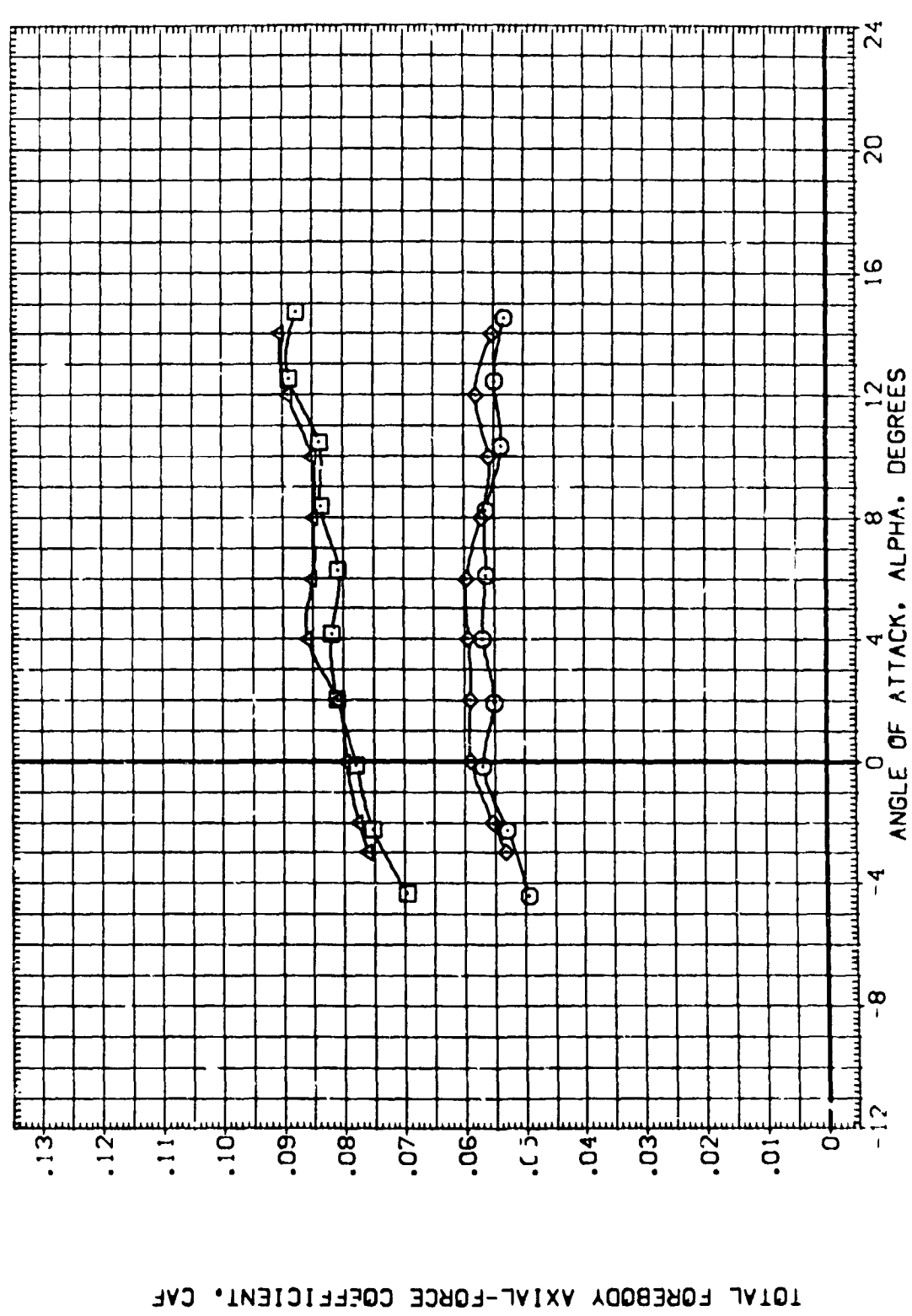


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(0)MAC = .90

DATA SET SYMBOL

[CER019]

[CER020]

[CER019]

[CER020]

CONFIGURATION DESCRIPTION

ARC 66-709 OAS9 DALLA-(N24)

DATA NOT AVAILABLE

ARC 66-709 OAS9 DALLA-N24 (ADJUSTED FOR TARES)

DATA NOT AVAILABLE

BETA

.000

.000

.000

.000

ELEVON

.000

15.000

.000

15.000

BOFLAP

-11.700

-11.700

-11.700

-11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRRP 12.6755 IN.

YMRRP .0000 IN.

ZMRRP -.3750 IN.

SCALE .0150

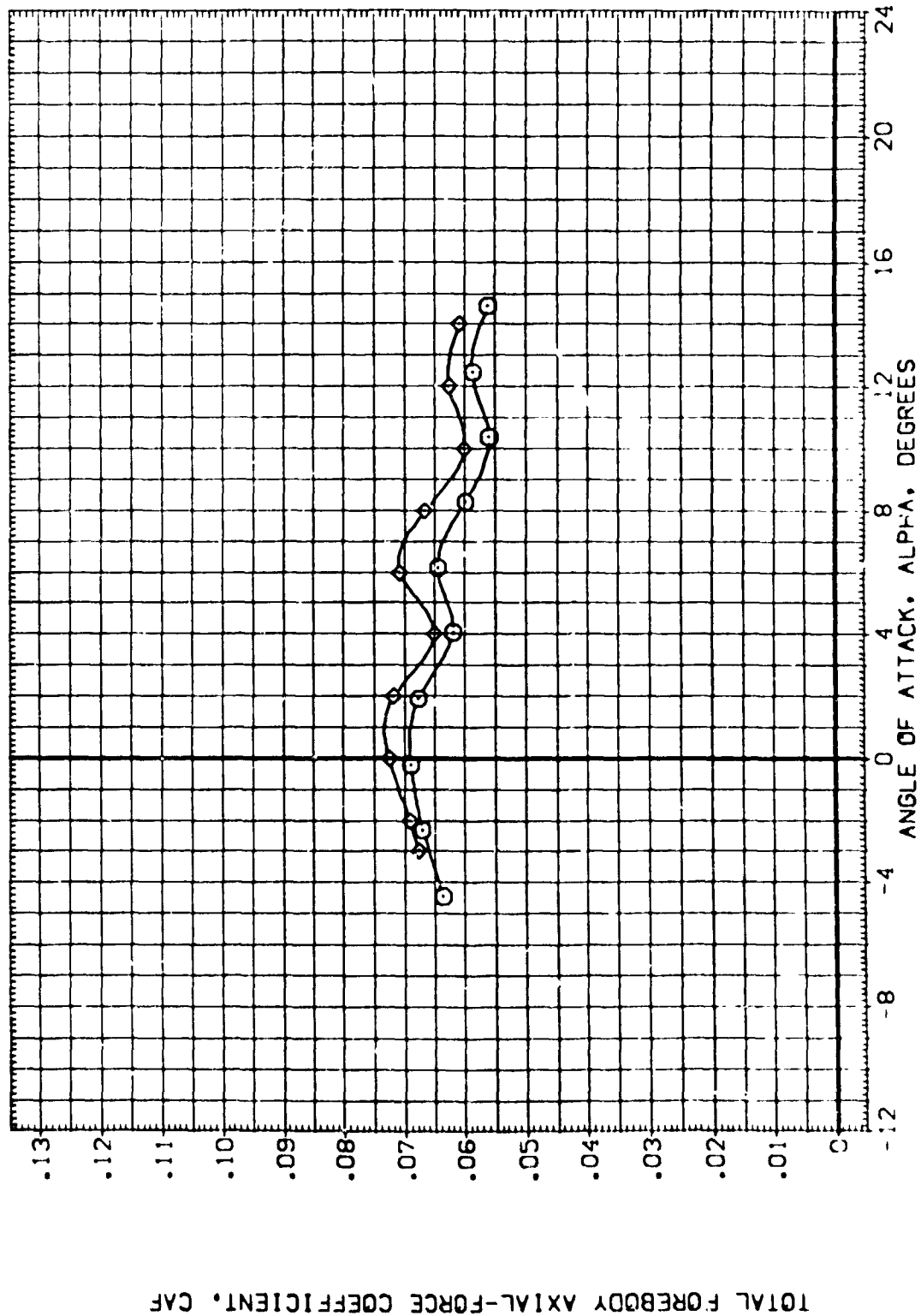


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GRC19) ARC 66-709 DAS8 0111A-(N24)
 (GRC70) ARC 66-709 DAS8 0111A-(N24)
 (GRC19) ARC 66-709 DAS8 0111A-N24 (ADJUSTED FOR TARES)
 (GRC70) ARC 66-709 DAS8 0111A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0:50

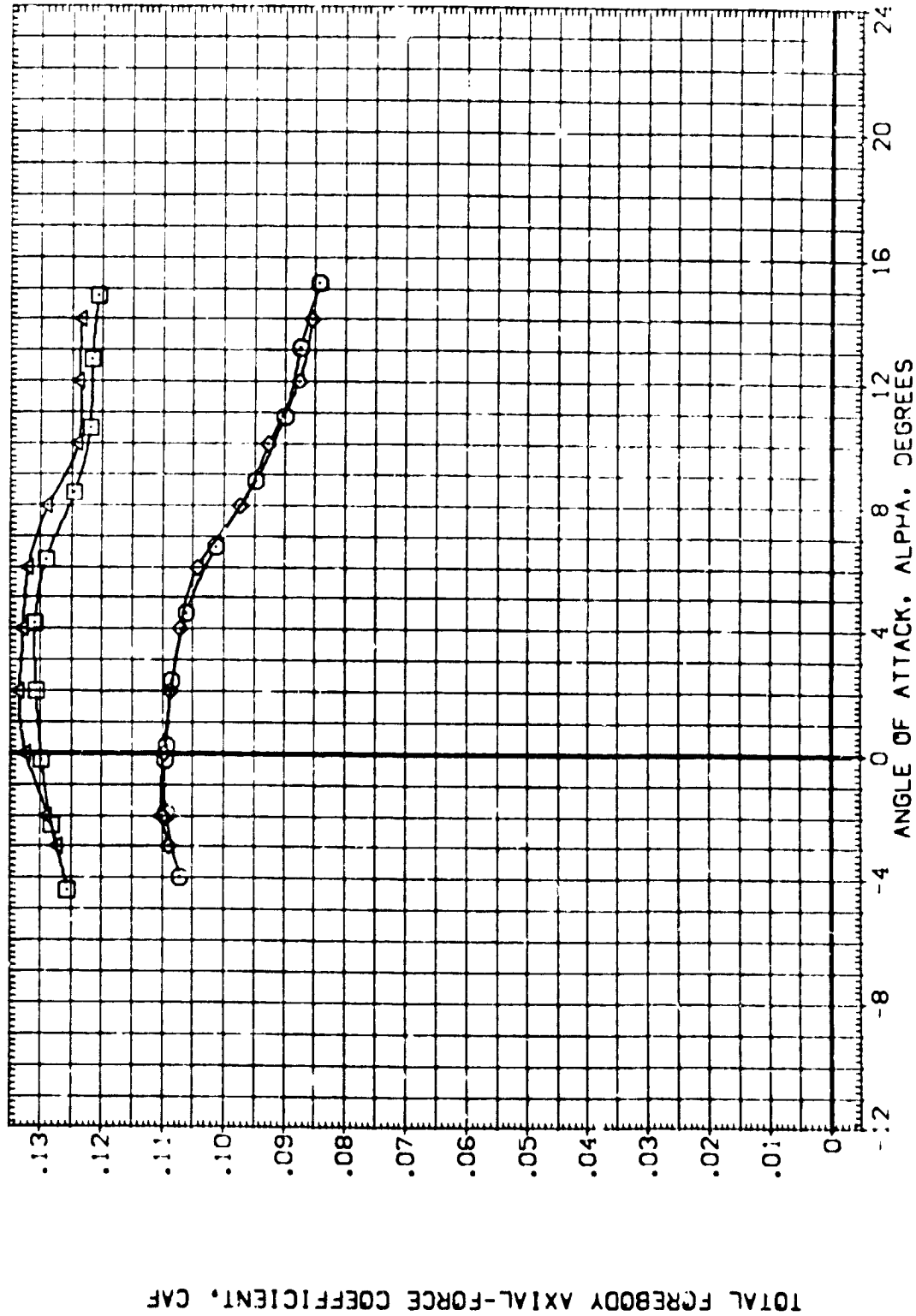


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(FORM 1) 1:20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(36019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(36020)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(36021)	ARC 66-709 0A59 0A11A-(N24) (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1110 FT.
(36022)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XREF 12.6755 IN.
					YREF .0000 IN.
					ZREF .3750 IN.
					SCALE .0150

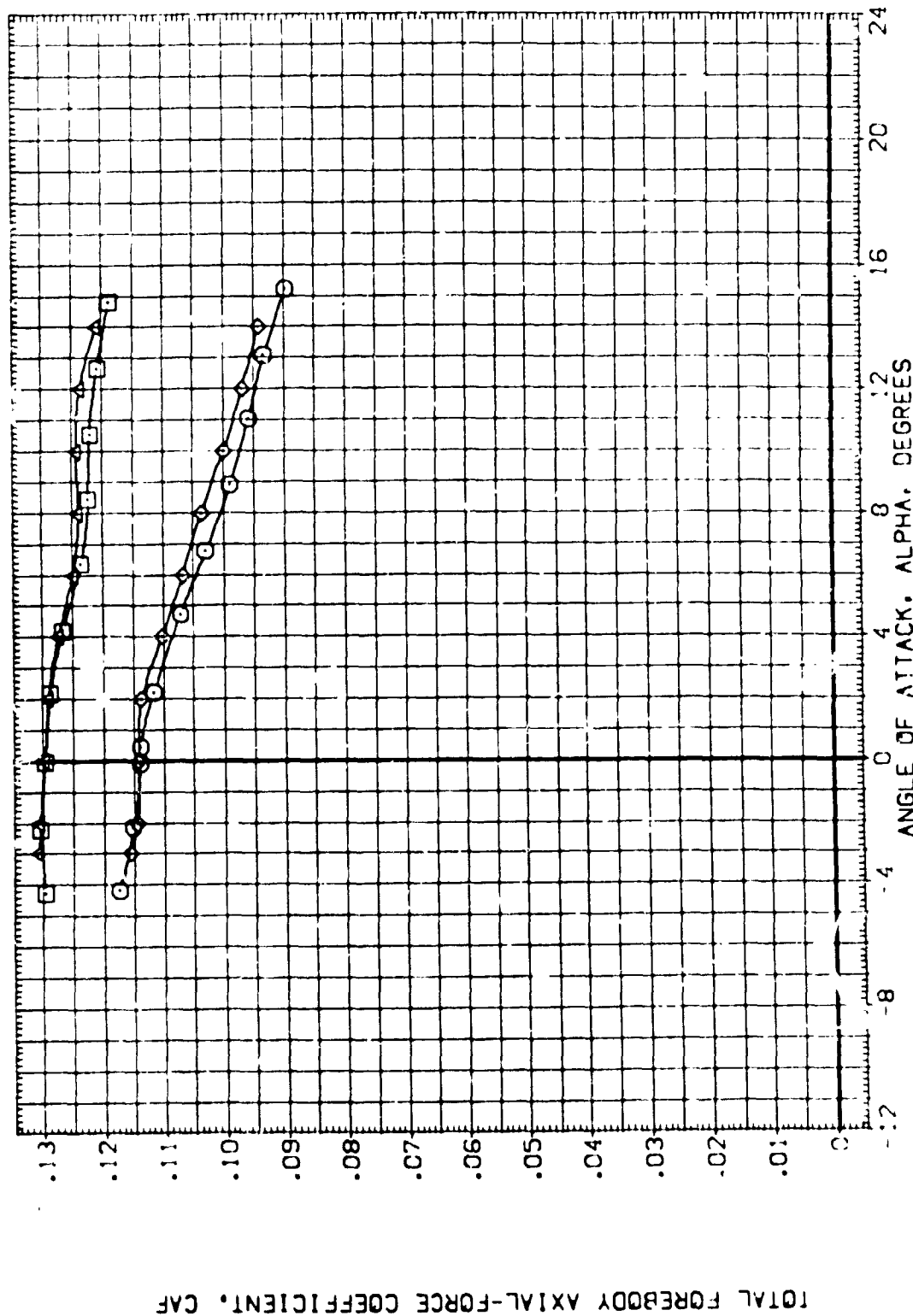


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MAC 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GER019) ARC 66-709 0A59 0A11A-(N24)
 (GER020) ARC 66-709 0A59 0A11A-(N24)
 (ZER019) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
 (ZER020) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SD.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

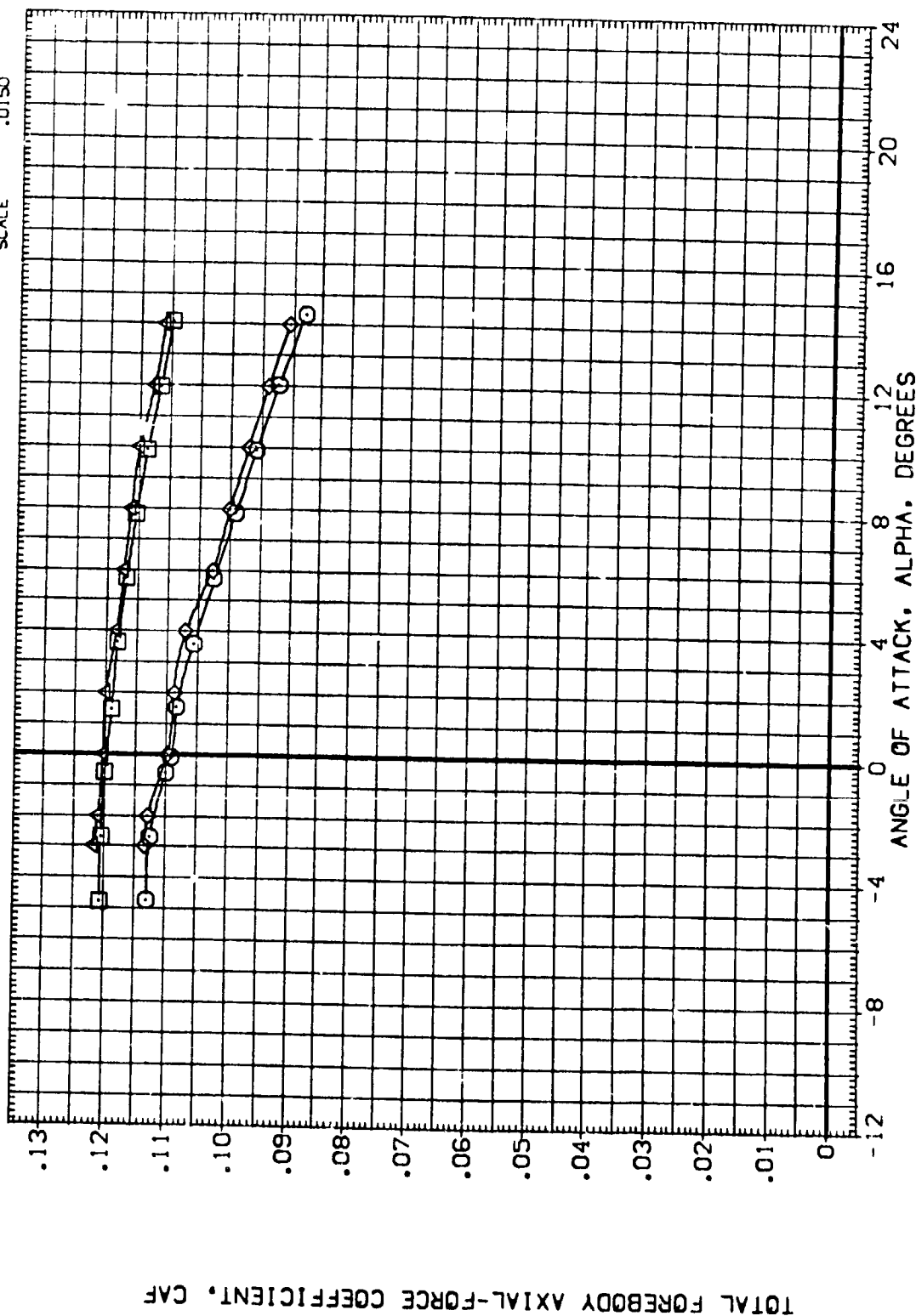


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

[H]MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GER019}	ARC 66-709 DASS 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
{GER020}	ARC 66-709 DASS 0111A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
{3ER019}	ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
{3ER020}	ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

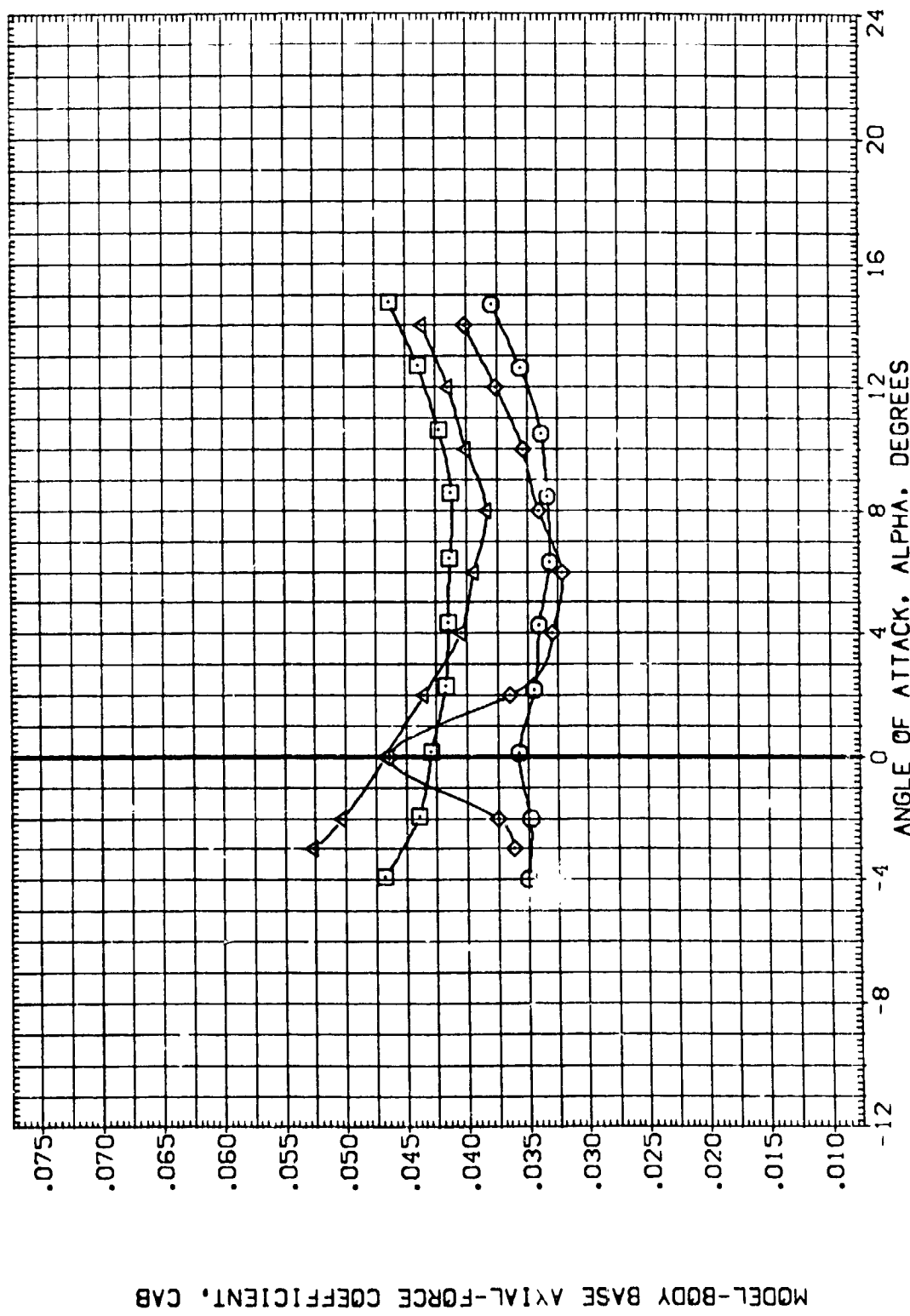


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GER019}	ARC 66-709 DAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
{GER020}	ARC 66-709 DAS9 0111A-(N24)	.000	.000	-11.700	LREF .5935 FT.
{3ER019}	ARC 66-709 DAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
{3ER020}	ARC 66-709 DAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

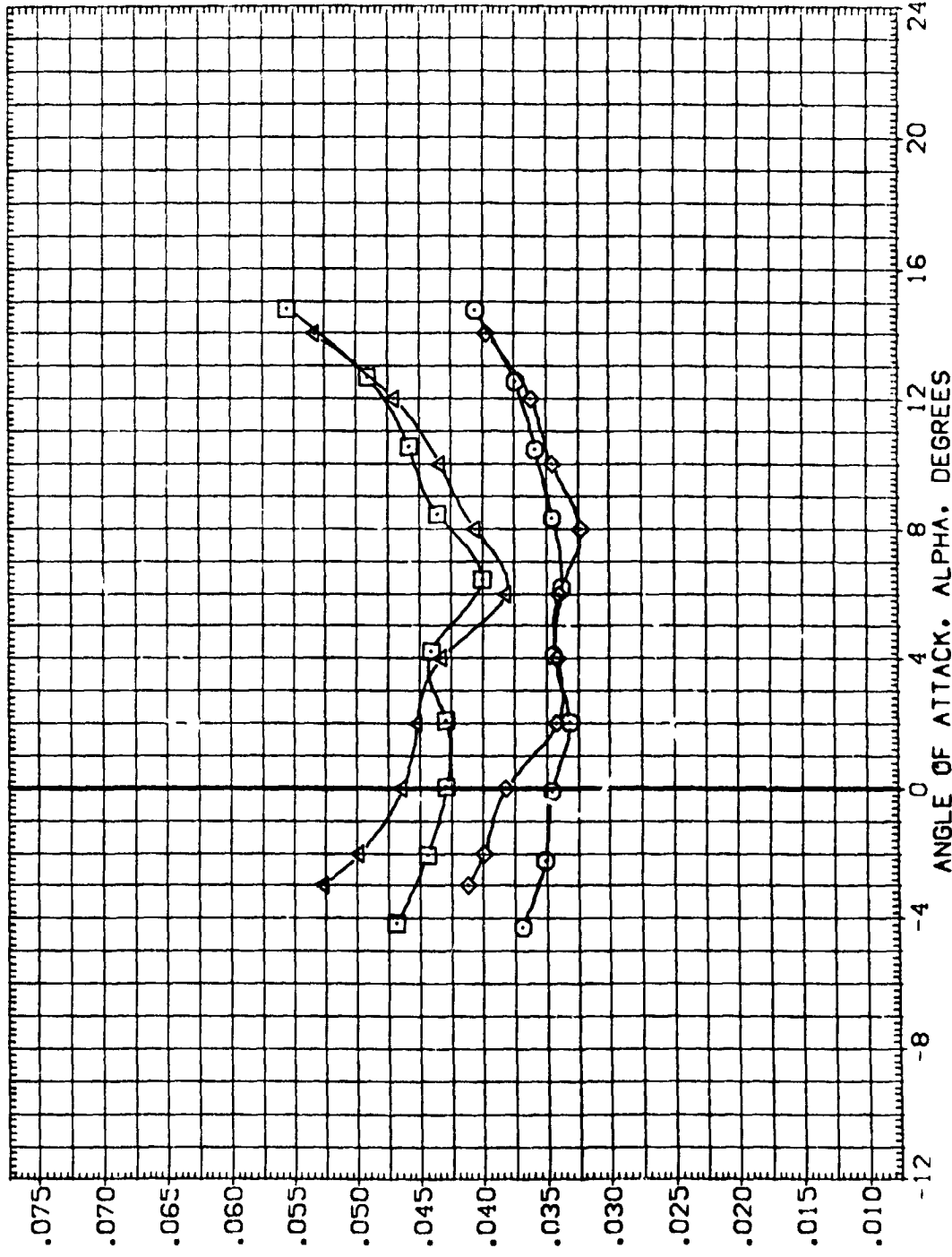


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MAC = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BDF LAP REFERENCE INFORMATION

(GRC19)	ARC 66-709 DA59 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GRC20)	ARC 66-709 DA59 0111A-(N24)	.000	15.000	-11.700	LREF .5935 F.
(ZRC19)	ARC 66-709 DA59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 F.
(ZRC20)	ARC 66-709 DA59 0111A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMPP 12.6255 IN.
					YMPP .0000 IN.
					ZMPP -.3750 IN.
					SCALE .0150

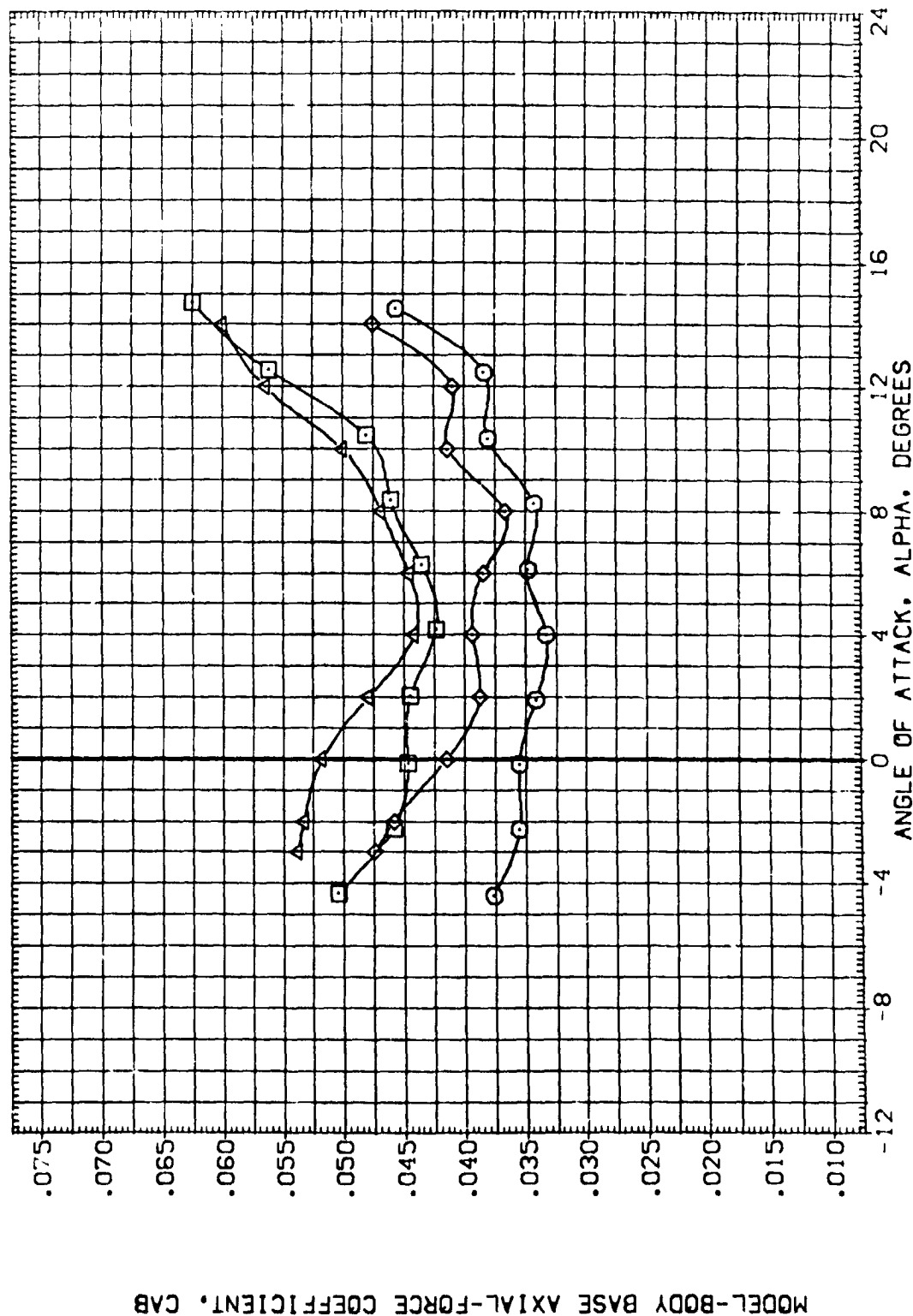




FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(D)MACH = .90

DATA SET SYMBOL:  
 (GE019) ARC 66-709 DASS 011A-(N24)
 (GE020) DATA NOT AVAILABLE
 (GE019) ARC 66-709 DASS 011A-N24 (ADJUSTED FOR TARES)
 (GE020) DATA NOT AVAILABLE

BETA: .000 ELEVON: .000 BOFLAP: -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION:
 SREF: .6053 SQ. FT.
 LREF: .5935 FT.
 BREF: 1.1710 FT.
 XMRP: 12.6255 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

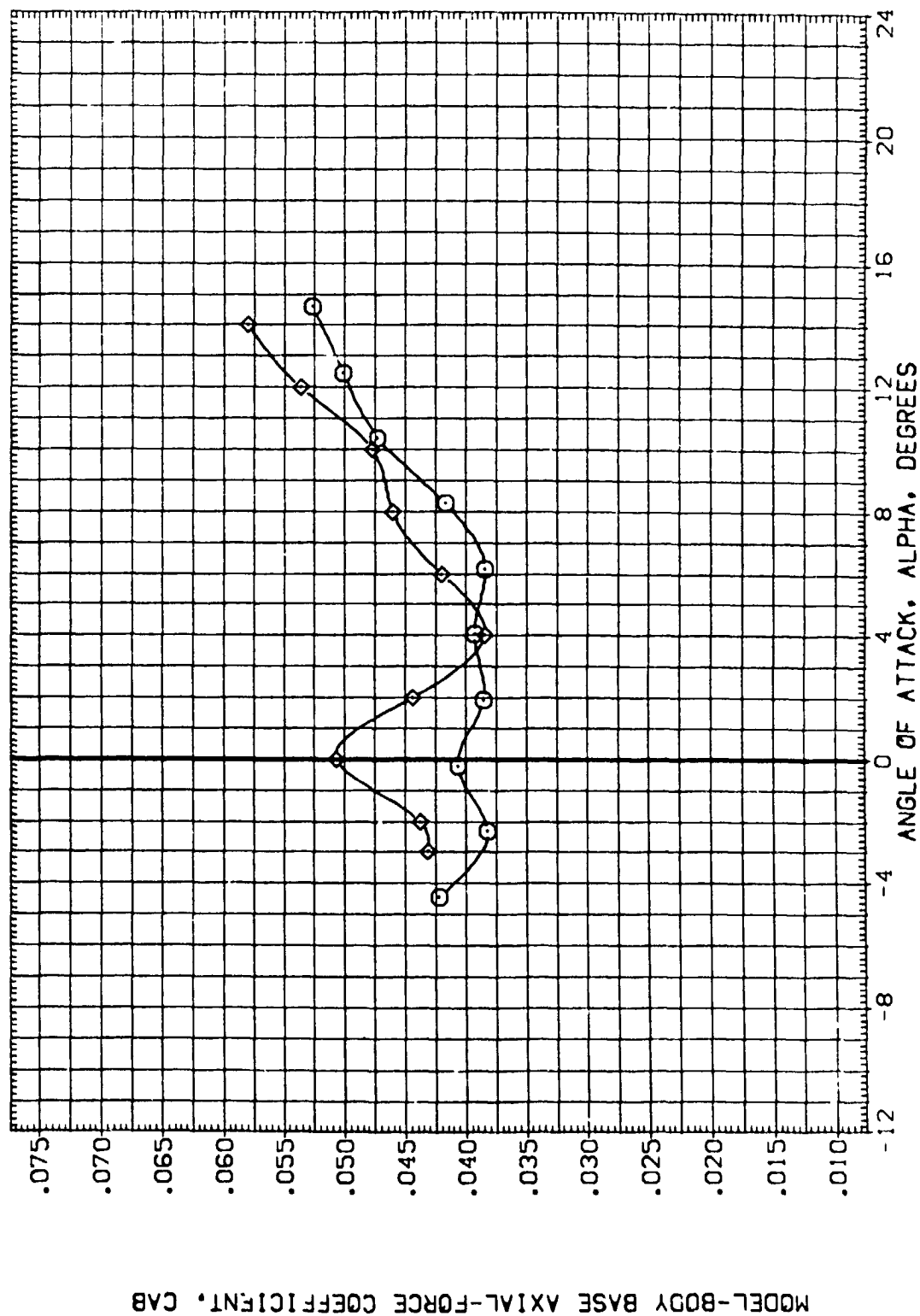


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(E)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (ZERO19) ARC 66-709 0A59 0A11A-(N24)
 (ZERO20) ARC 66-709 0A59 0A11A-(N24)
 (ZERO19) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
 (ZERO20) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .3053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

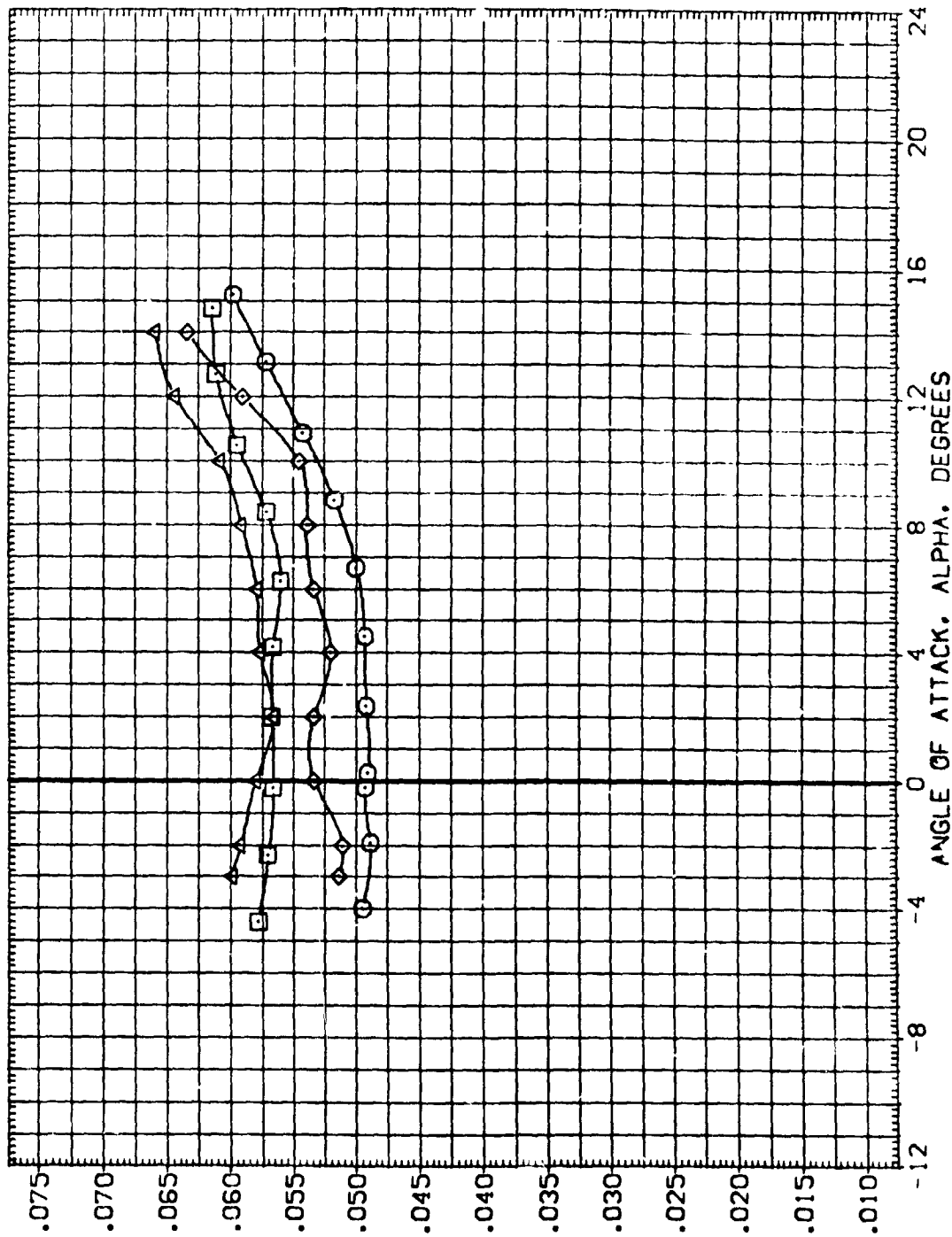


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH - 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	-11.700	SREF .8053 50.FT.
(GER020)	ARC 66-709 DA59 DA11A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(3ER019)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(3ER020)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMPP 12.6255 IN.
					YMPP .0000 IN.
					ZMPP -.3750 IN.
					SCALE .0150

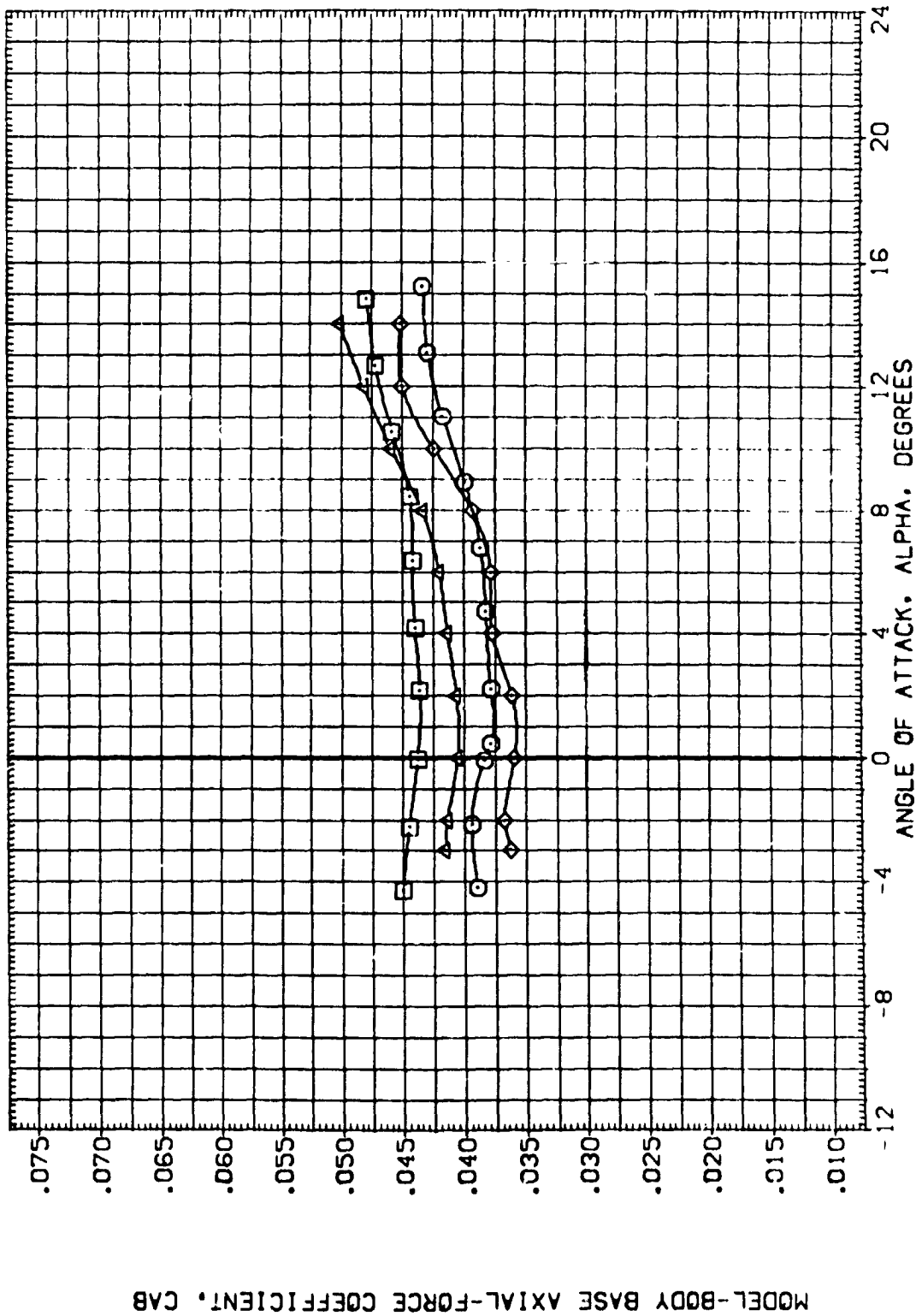


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

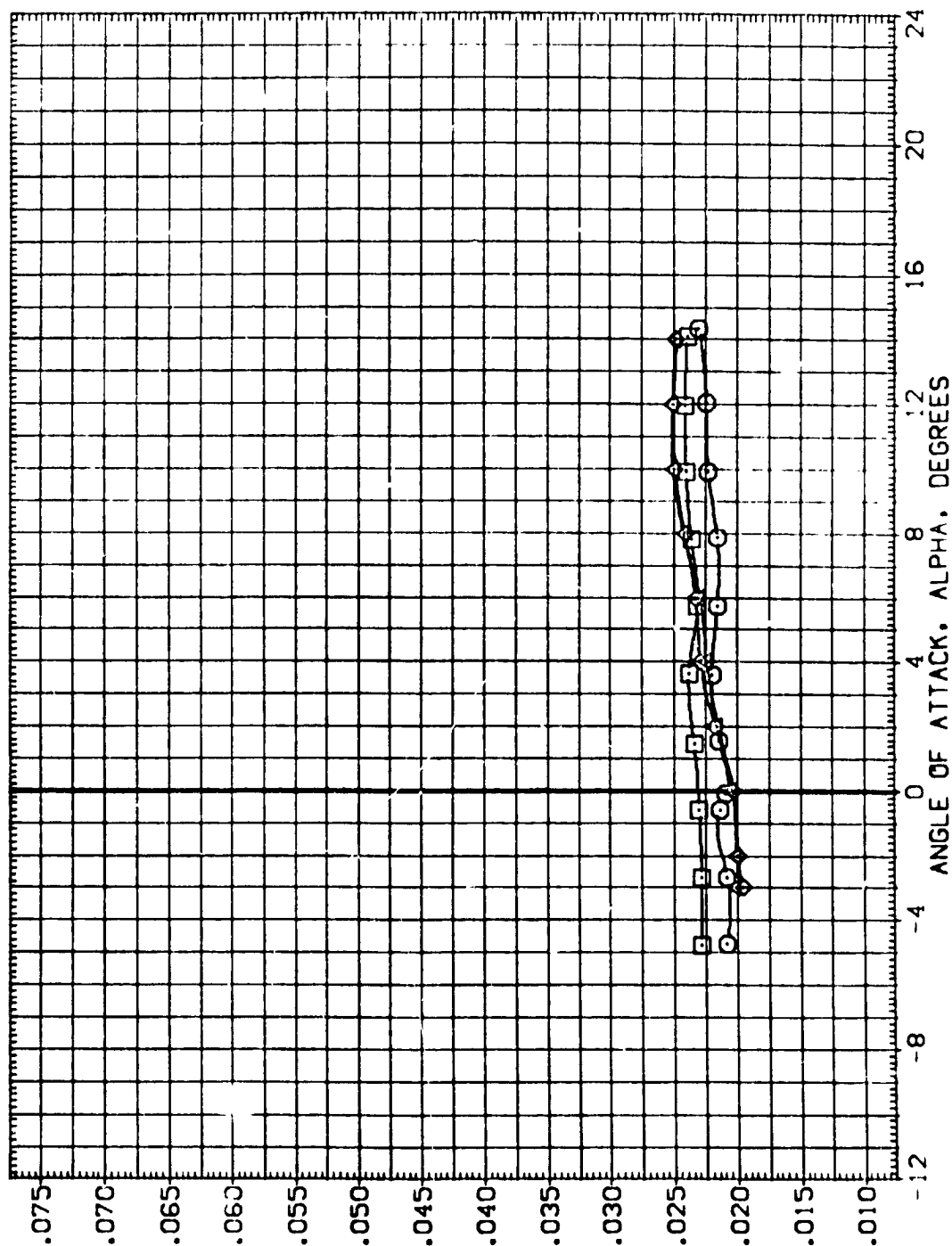
(06R019)	ARC 66-709 0A59 0A11A-(N24)
(06R020)	ARC 66-709 0A59 0A11A-(N24)
(36R019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
(36R020)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

REFERENCE INFORMATION

SREF	6053	50 FT.
LREF	5935	FT.
BREF	1.1710	IN.
YMRP	12.6255	IN.
ZMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	



MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(H)MACII 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BE0019) ARC 66-709 0A59 0A11A-N24

(BE0020) ARC 66-709 0A59 0A11A-N24

(ZE0019) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

(ZE0020) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50. FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

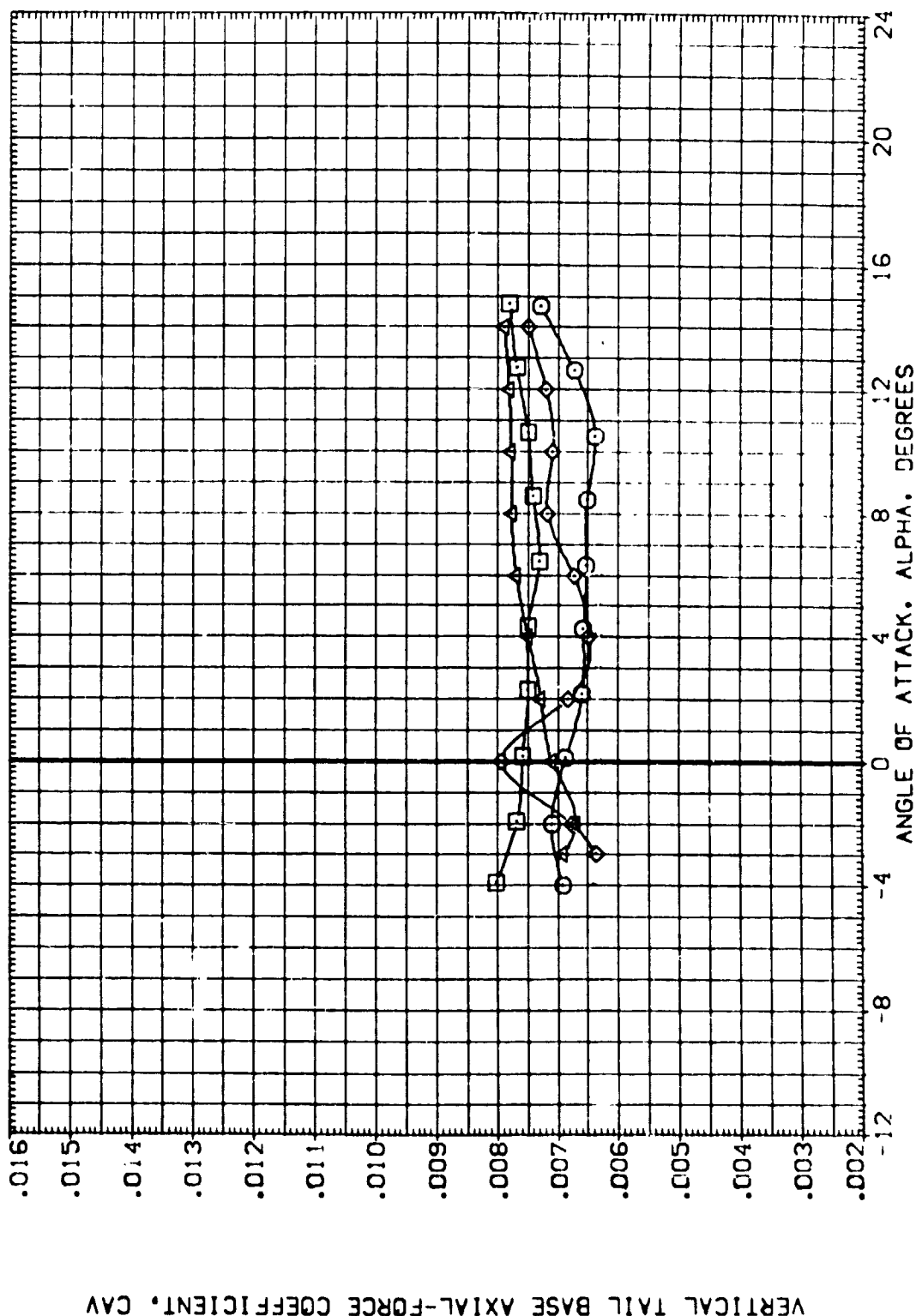


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MAC = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(BER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(BER020)	ARC 66-709 0A59 0A11A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(ZER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(ZER020)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

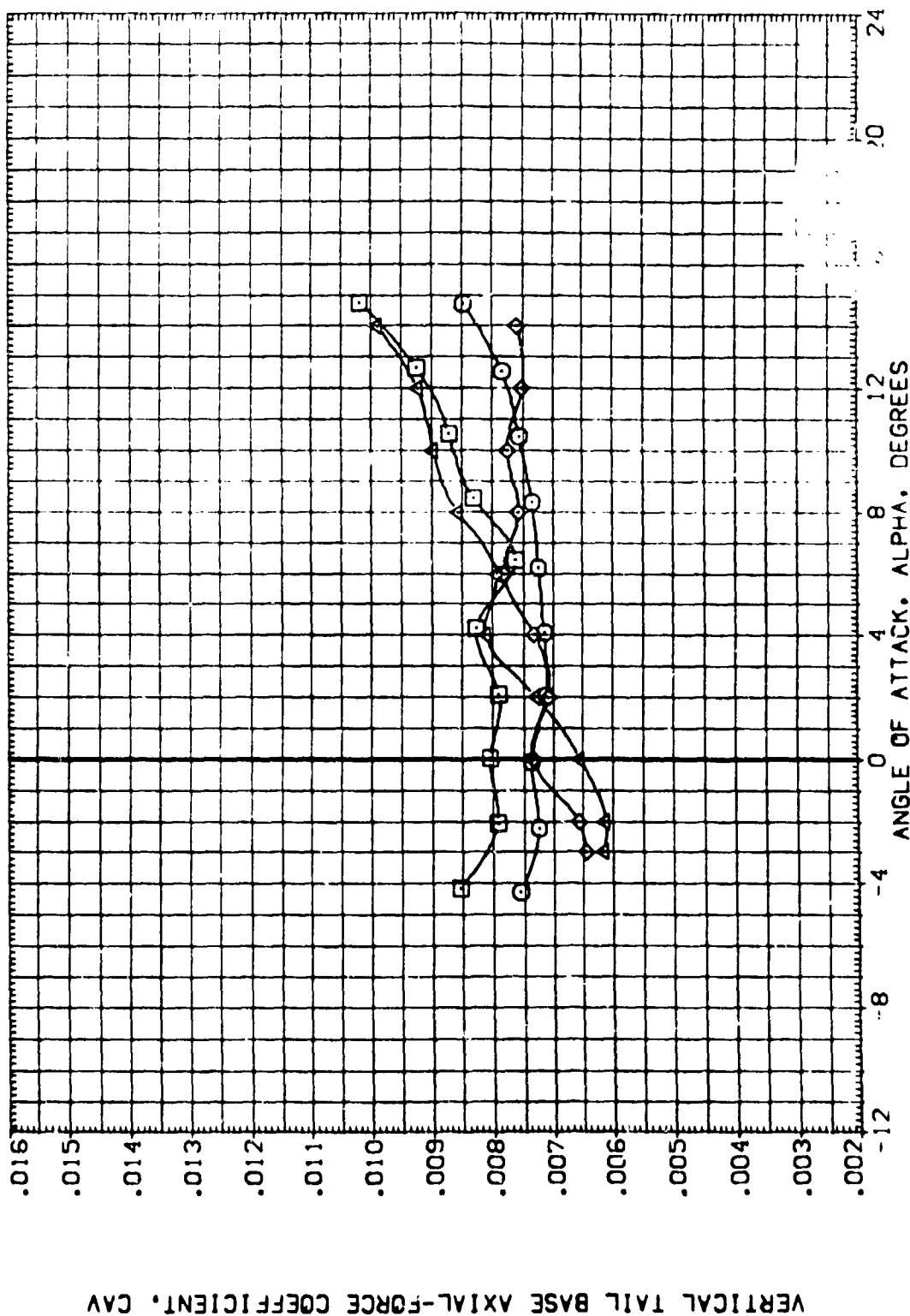


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BER019) ARC 66-709 0459 0111A-(N24)

(BER020) DATA NOT AVAILABLE

(ZER019) ARC 66-709 0459 0111A-N24 (ADJUSTED FOR TARES)

(ZER020) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF 6053 SQ.FT.

LREF .5835 F.T.

BREF 1.1710 F.T.

YMRP 12.6255 IN.

ZMRP .0000 IN.

SCALE -.3750 IN.

 .0150

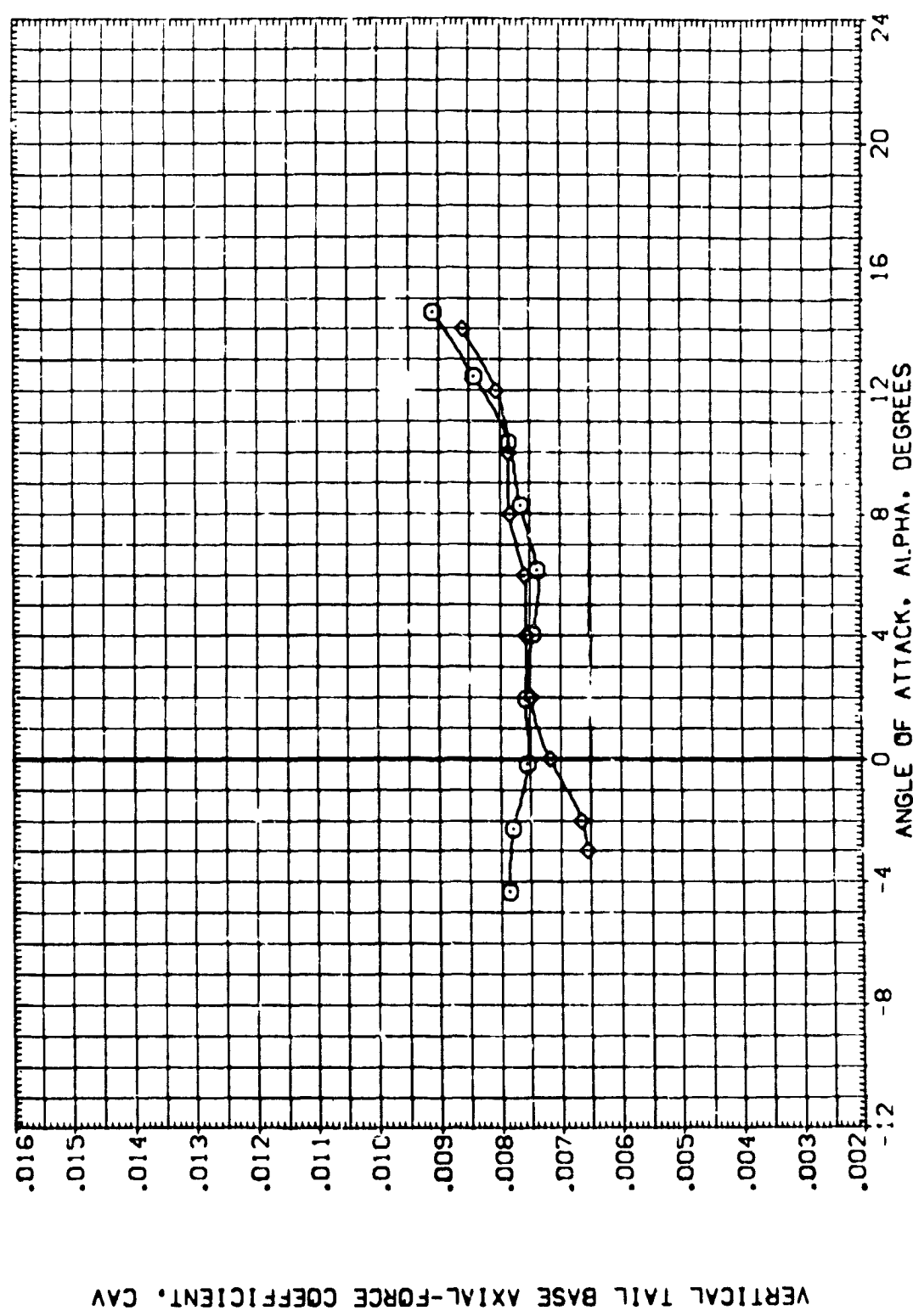


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MAC .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (BERO19) ARC 66-709 DAS9 0111A-N24
 (BERO20) ARC 66-709 DAS9 0111A-N24
 (ZERO19) ARC 66-709 DAS9 0111A-N24 (ADJUSTED FOR TARES)
 (ZERO20) ARC 66-709 DAS9 0111A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDF/AV
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF -6053 50.11
 LREF -5936 50.11
 BREF 1.1710 FT.
 XMRP 12.6755 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

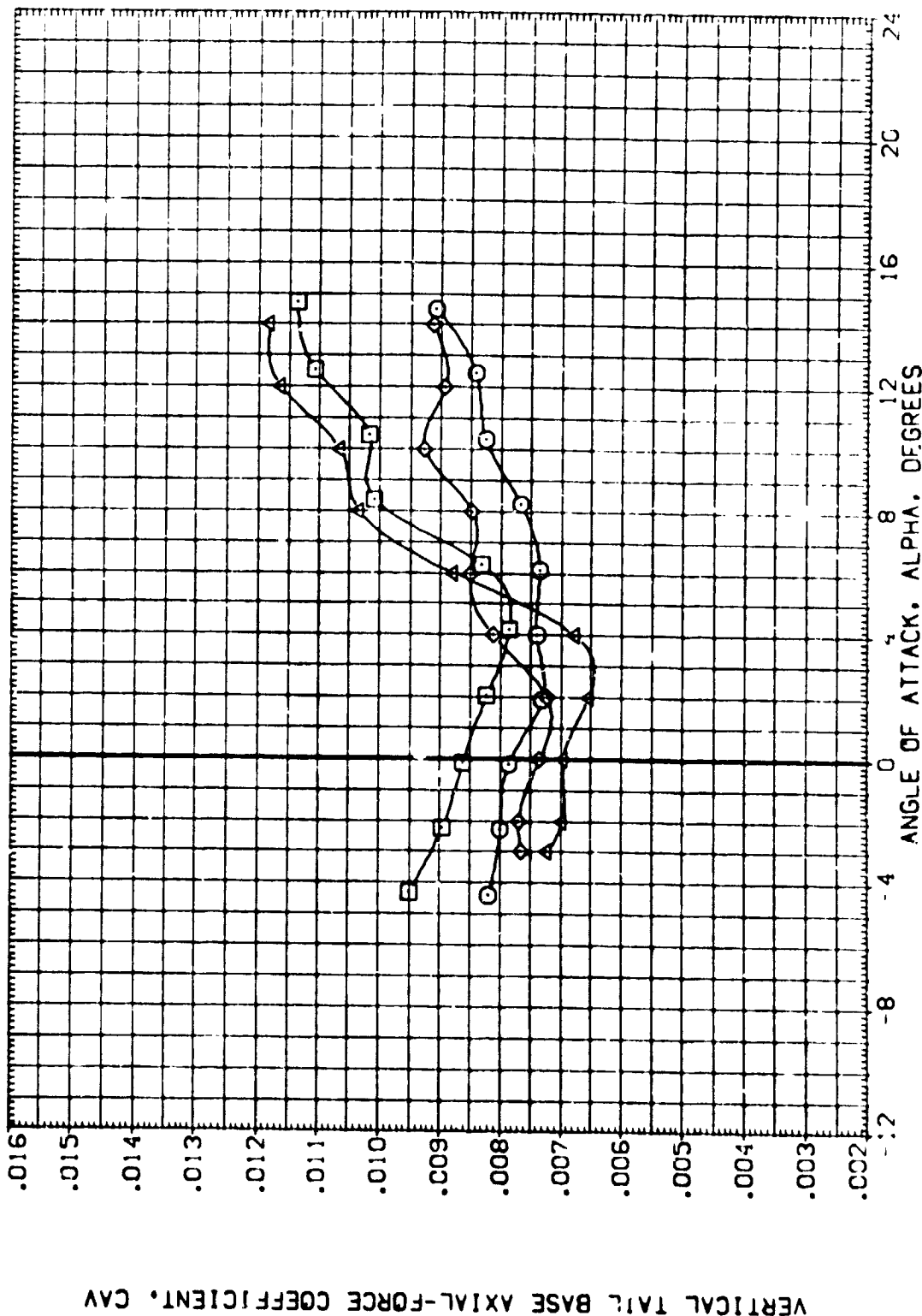


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(D)MAC .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER019)	ARC 66-709 OAS9 0A11A-(N24)	.000	.000	-11.700	SREF -6053 SQ.FT.
(BER020)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF -5935 FT.
(ZER019)	ARC 66-709 OAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 IN.
(ZER020)	DATA NOT AVAILABLE	.000	15.000	-11.700	YNRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.
					.0150

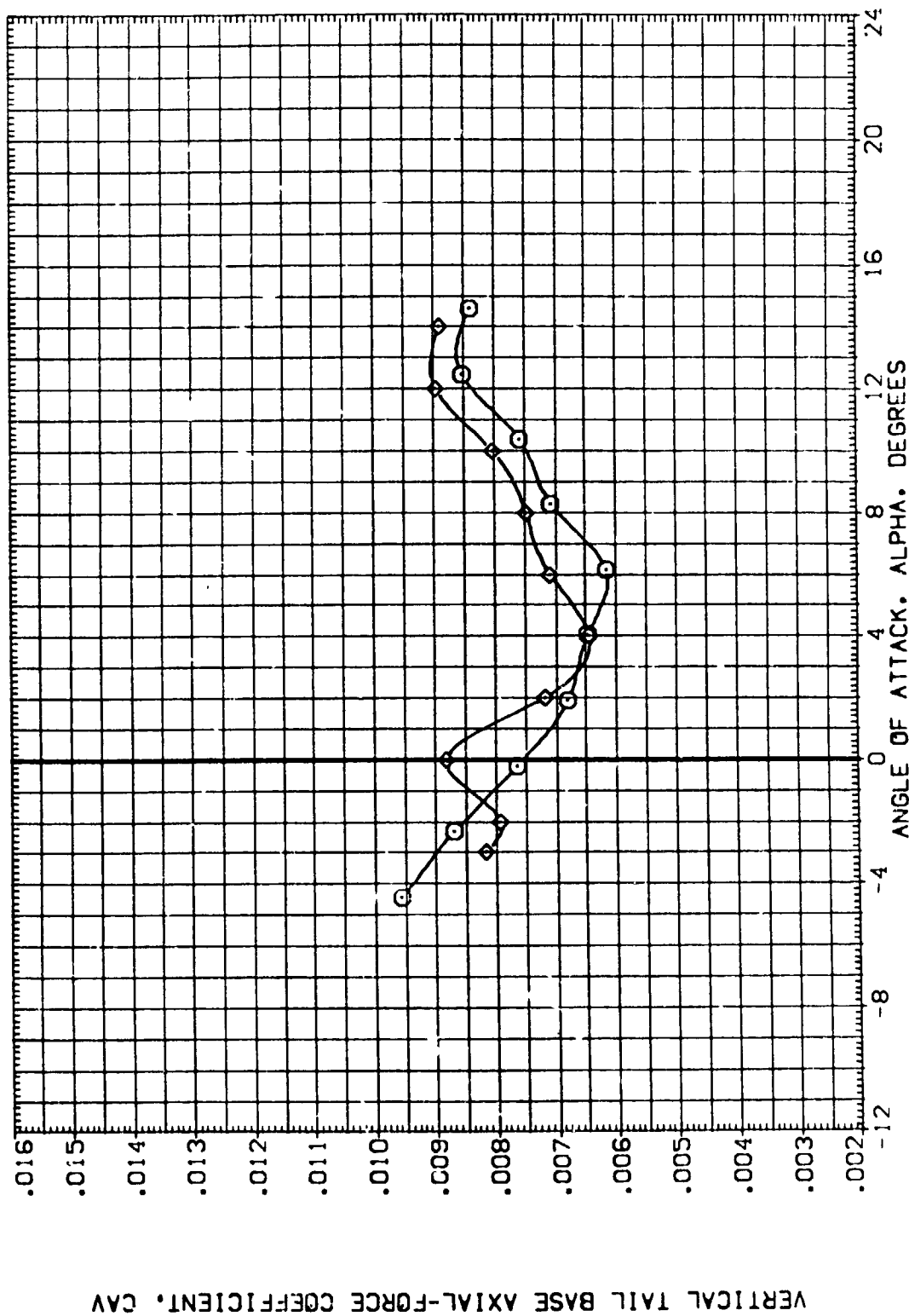


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{00018}	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF -6053 50.FT.
{00020}	ARC 66-709 0A59 0A11A-(N24)	.000	15.000	-11.700	LREF -5835 FT.
{00019}	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
{00020}	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

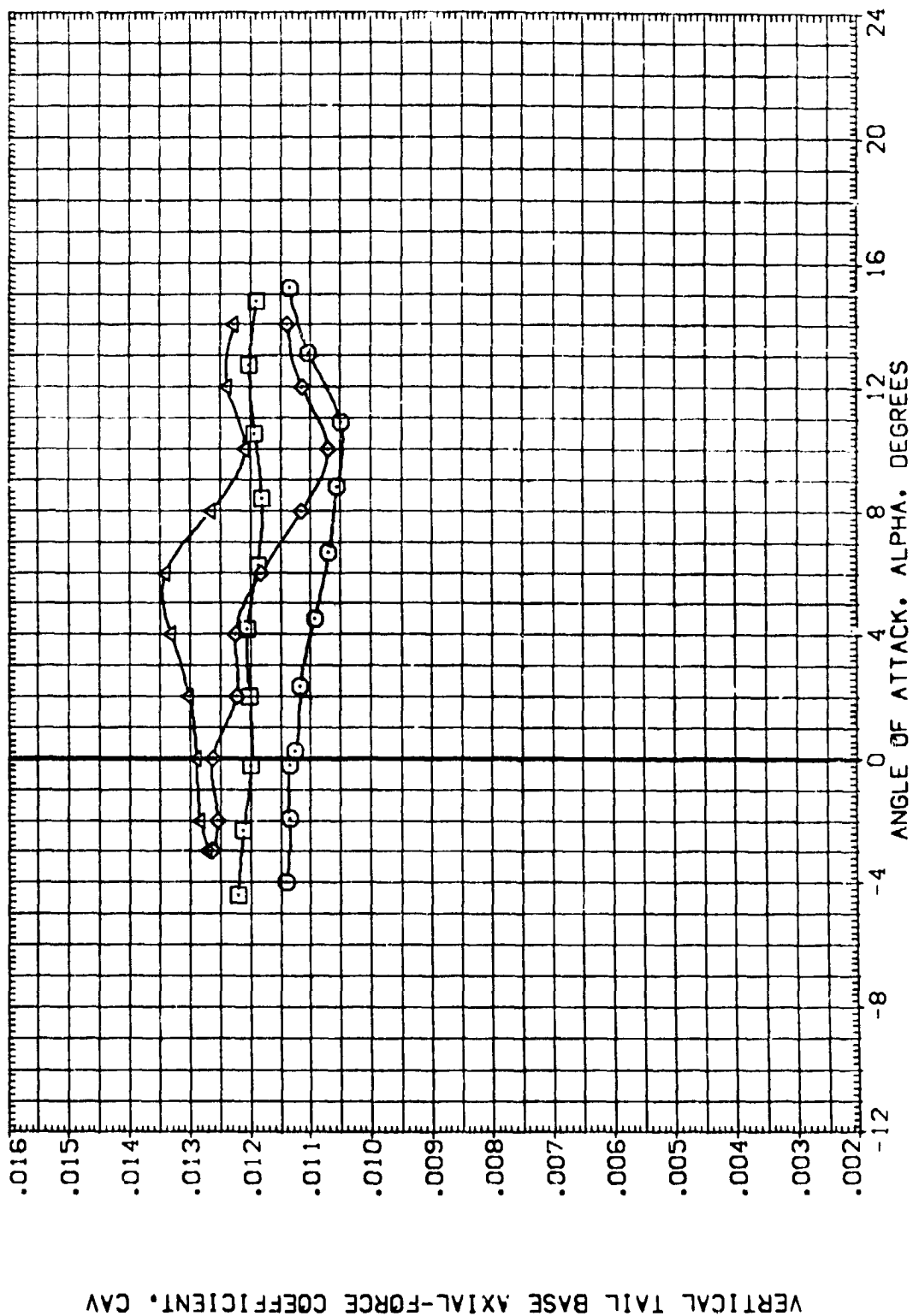


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(BE R019) ARC 66-709 QAS9 0111A-(N24) .000 .000 -11.700 SREF .6053 SQ.FT.

(BE R020) ARC 66-709 QAS9 0111A-(N24) .000 15.000 -11.700 LREF .5935 F.

(ZE R019) ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES) .000 .000 -11.700 BREF 1.1710 F.

(ZE R020) ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES) .000 15.000 -11.700 YMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

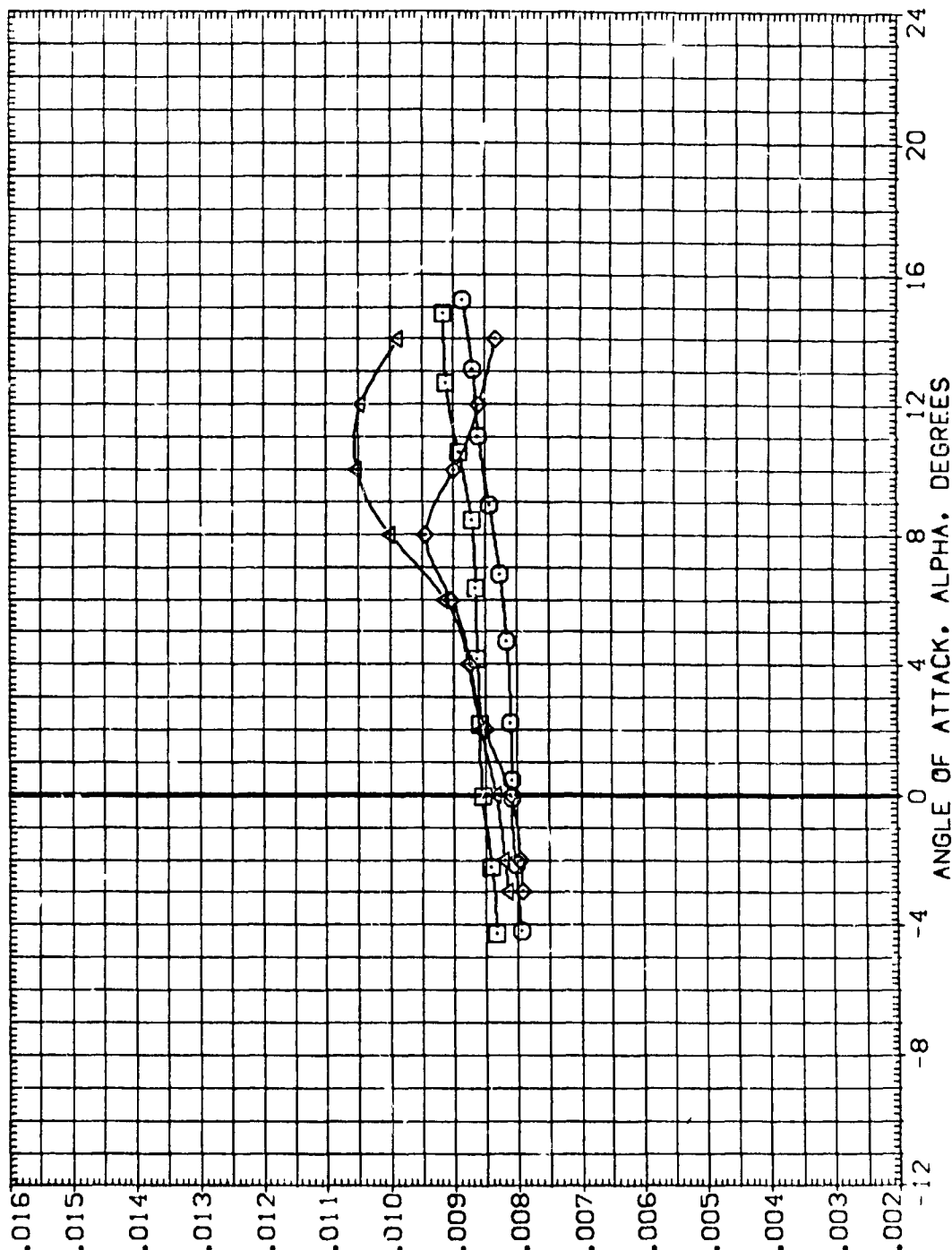


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (BERO19) □ ARC 66-709 0A59 0A11A-(N24)
 (BERO20) □ ARC 66-709 0A59 0A11A-(N24)
 (ZERO19) X ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
 (ZERO20) X ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

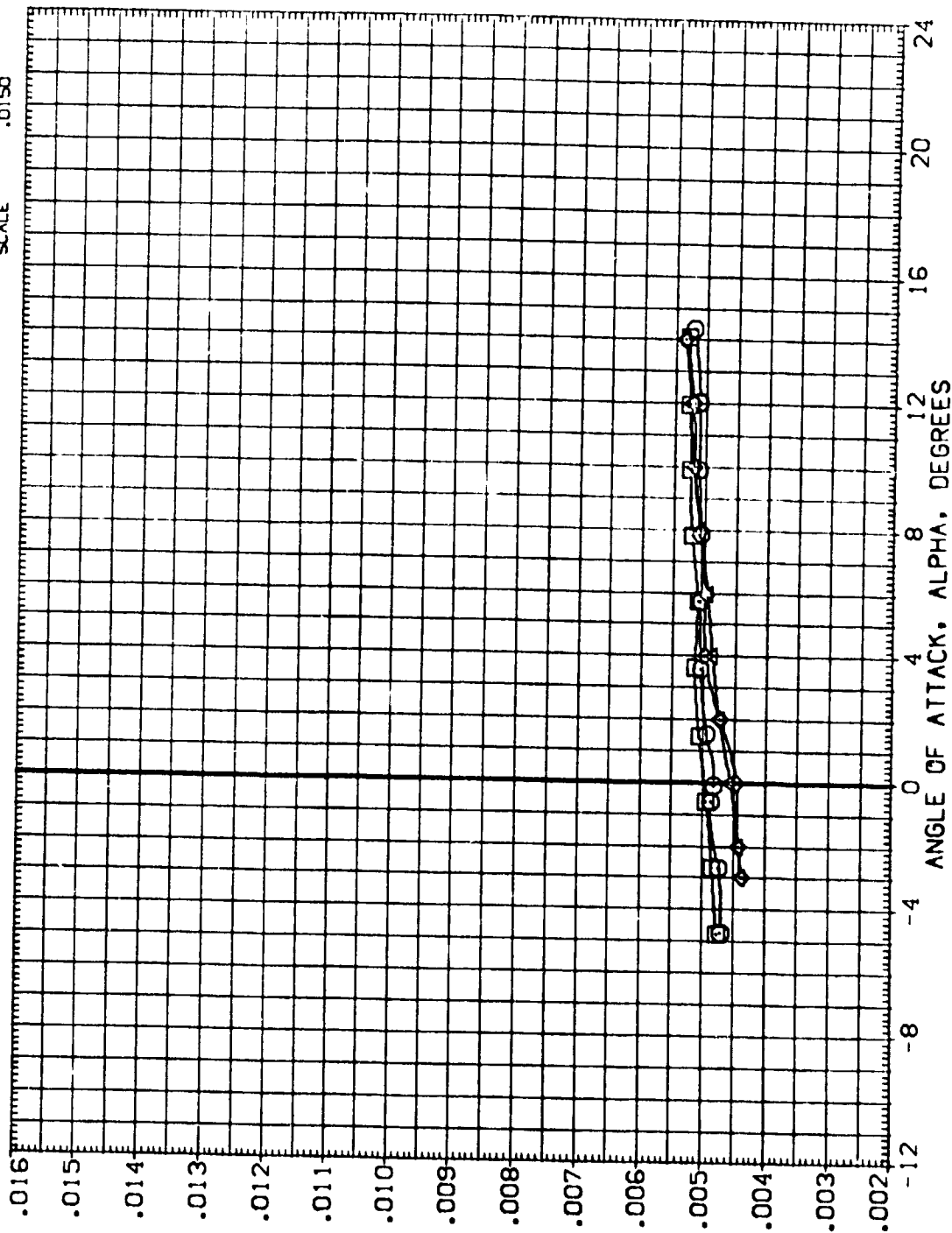


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[BER019]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053
[BER020]	ARC 66-709 0A59 0A11A-(N24)	.000	15.000	-11.700	LREF .5935
[ZER019]	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710
[ZER020]	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6255
					YMRP .0000
					ZMRP -.3750
					SCALE .0150

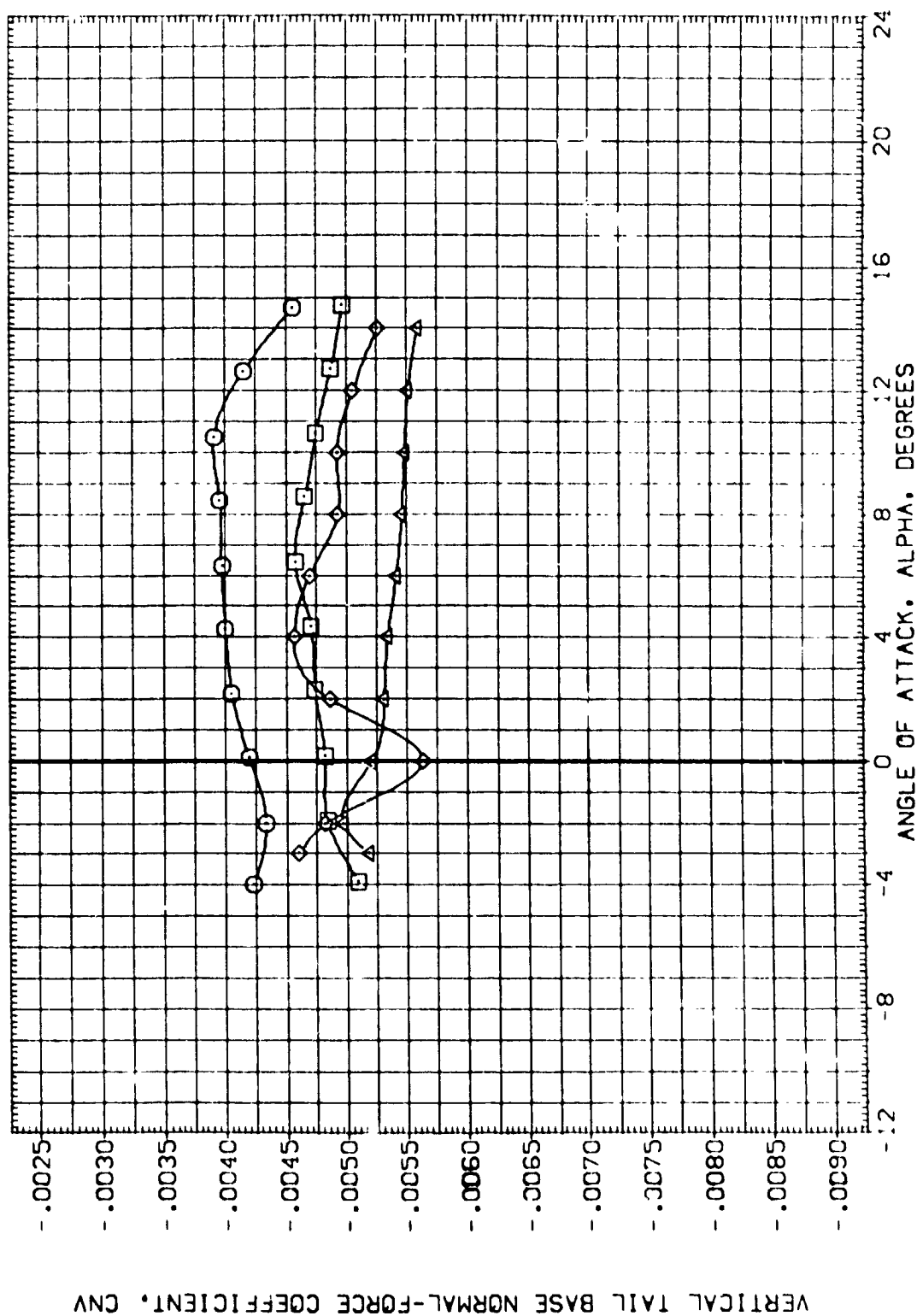


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MAC = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BUFLAP	REFERENCE INFORMATION
(B0019)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	-11.700	SREF 6053 SQ.FT.
(B0020)	ARC 66-709 DA59 DA11A-(N24)	.000	15.000	-11.700	LREF .5935 FT.
(Z0019)	ARC 66-709 DA59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(Z0020)	ARC 66-709 DA59 011A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRF 12.6255 IN.
					YMRF .0000 IN.
					ZMRF -.3750 IN.
					SCALE .0150

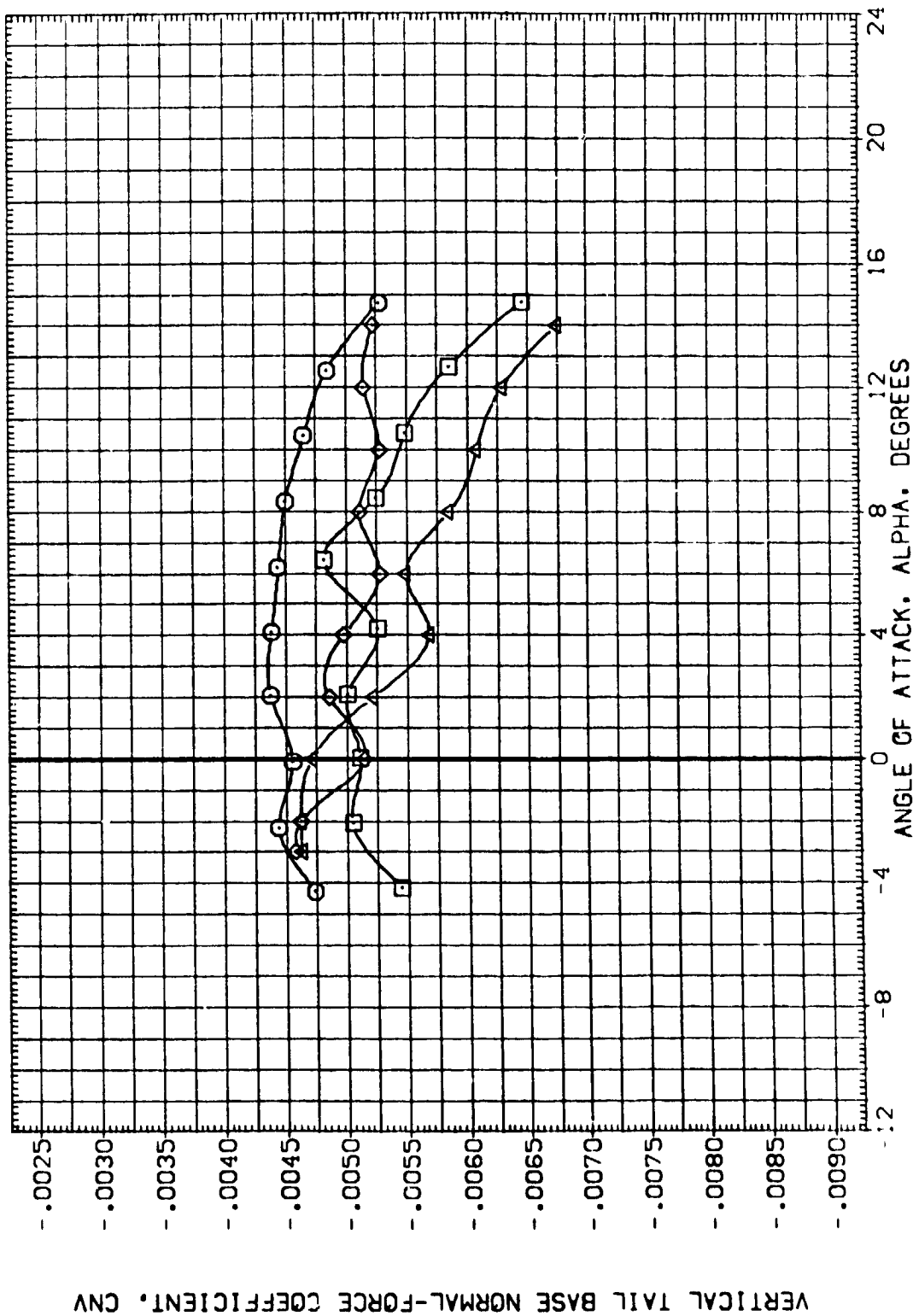


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B) MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(BER019)	ARC 66-709 QAS9 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50. FT.
(BER020)	DATA NOT AVAILABLE	.000	.000	-11.700	LREF .5935 FT.
(ZER019)	ARC 66-709 QAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(ZER020)	DATA NOT AVAILABLE	.000	.000	-11.700	XMRF 12.6255 IN.
					YMRF .0000 IN.
					ZMRF -.3750 IN.
					SCALE .0150

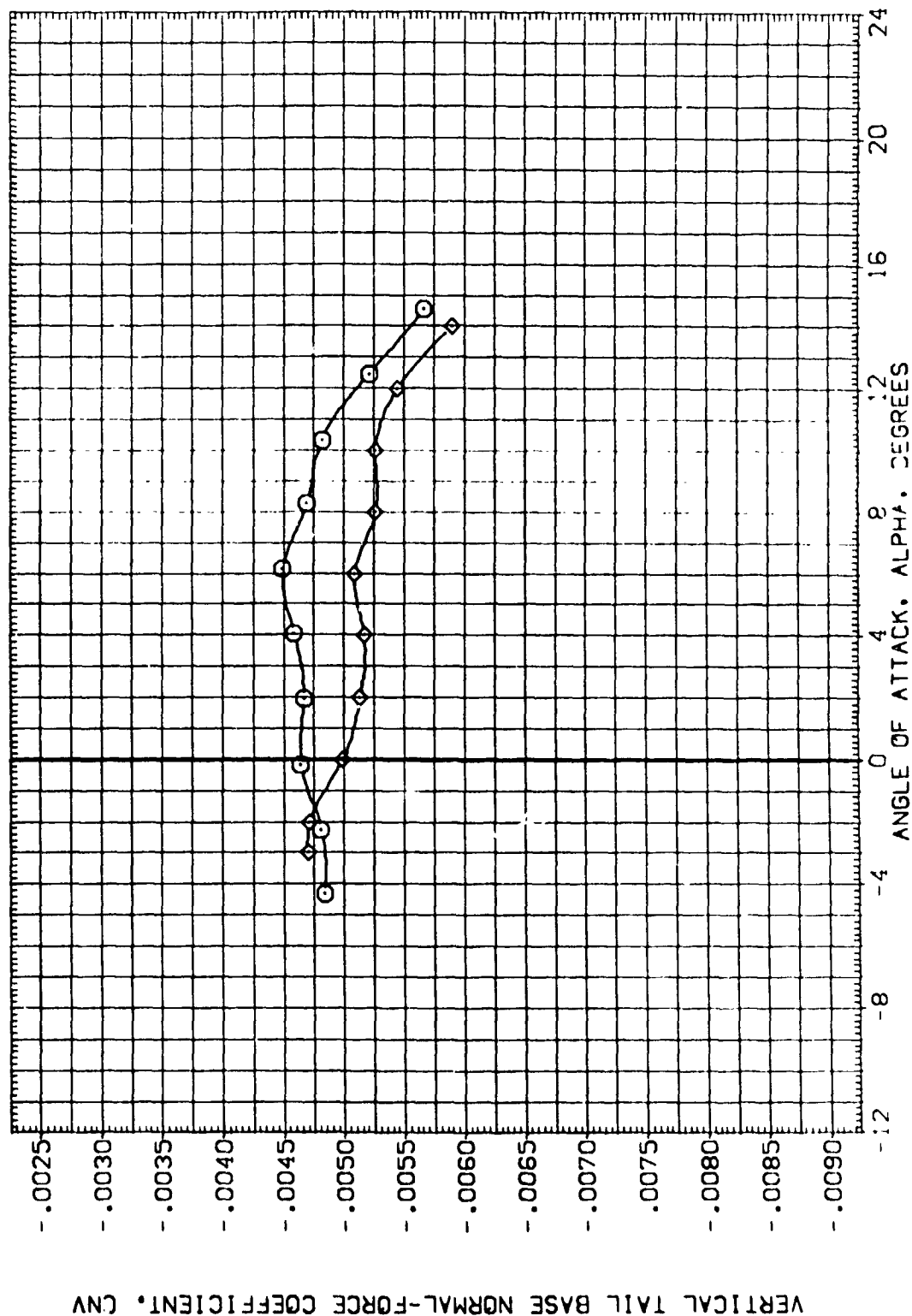


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MAC .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(B6R019) ARC 66-709 0A59 0A11A-(N24)

(B6R020) ARC 66-709 0A59 0A11A-(N24)

(Z6R019) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

(Z6R020) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000 .000 -11.700

15.000 15.000 -11.700

.000 .000 -11.700

15.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5835 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

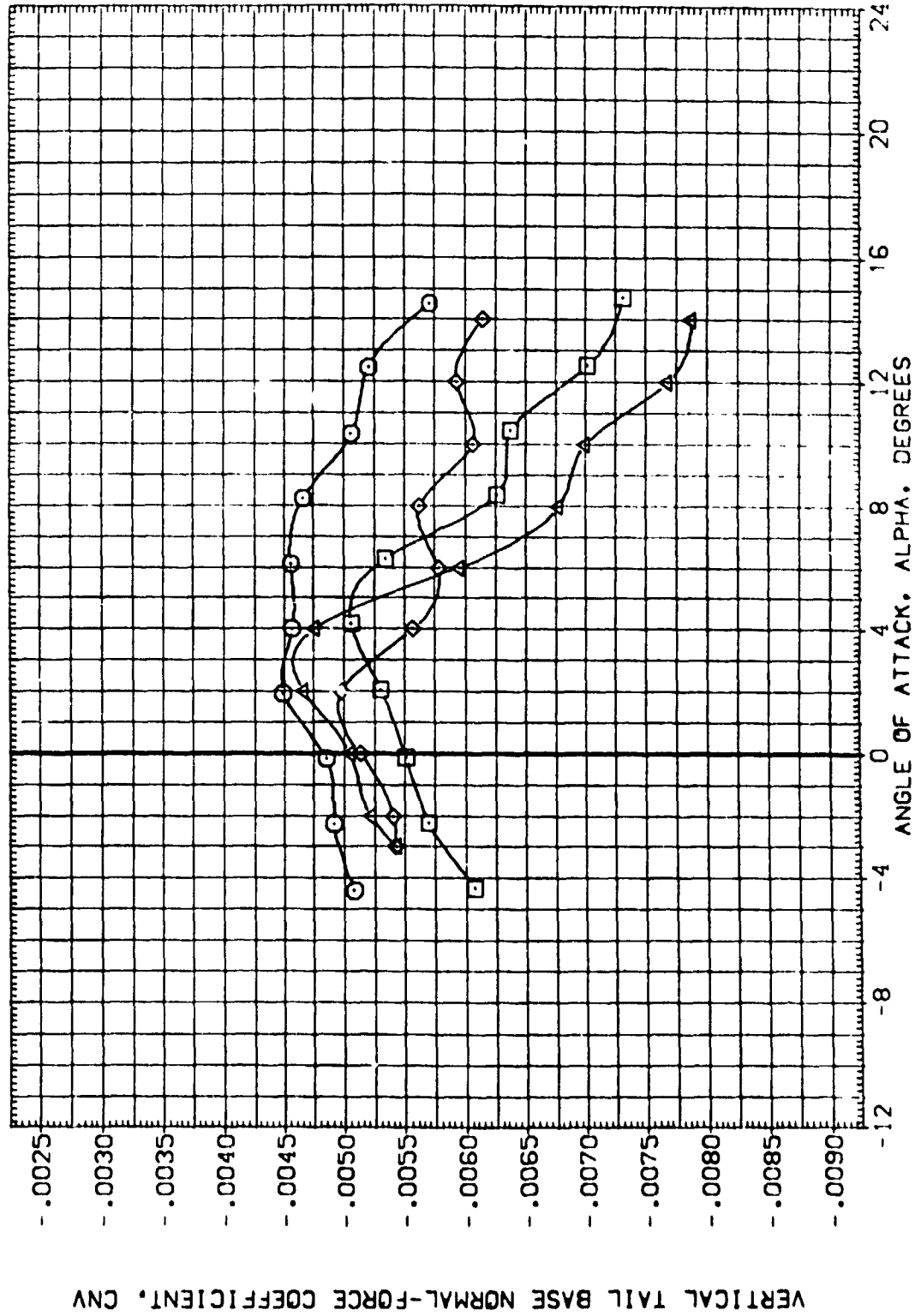


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(D)MACH .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BFR019)	ARC 66-709 OAS9 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(BFR020)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(ZFR019)	ARC 66-709 OAS9 0I11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(ZFR020)	DATA NOT AVAILABLE	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

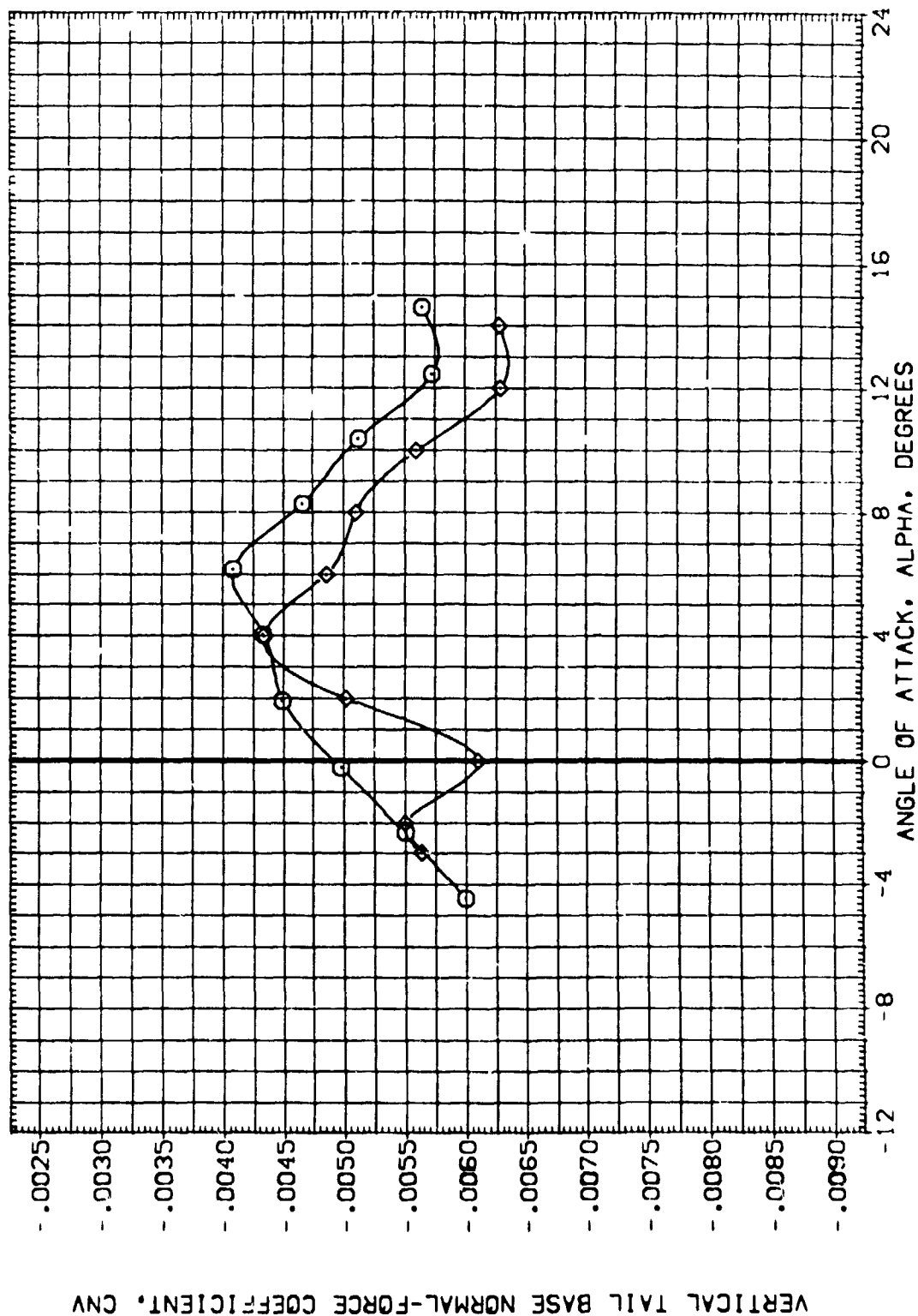


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER019)	ARC 66-709 DAS9 0111A-N24	.000	.000	-11.700	SREF .5053 SO.FT.
(BER020)	ARC 66-709 DAS9 0111A-N24	.000	.000	-11.700	LREF .5835 FT.
(ZER019)	ARC 66-709 DAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(ZER020)	ARC 66-709 DAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

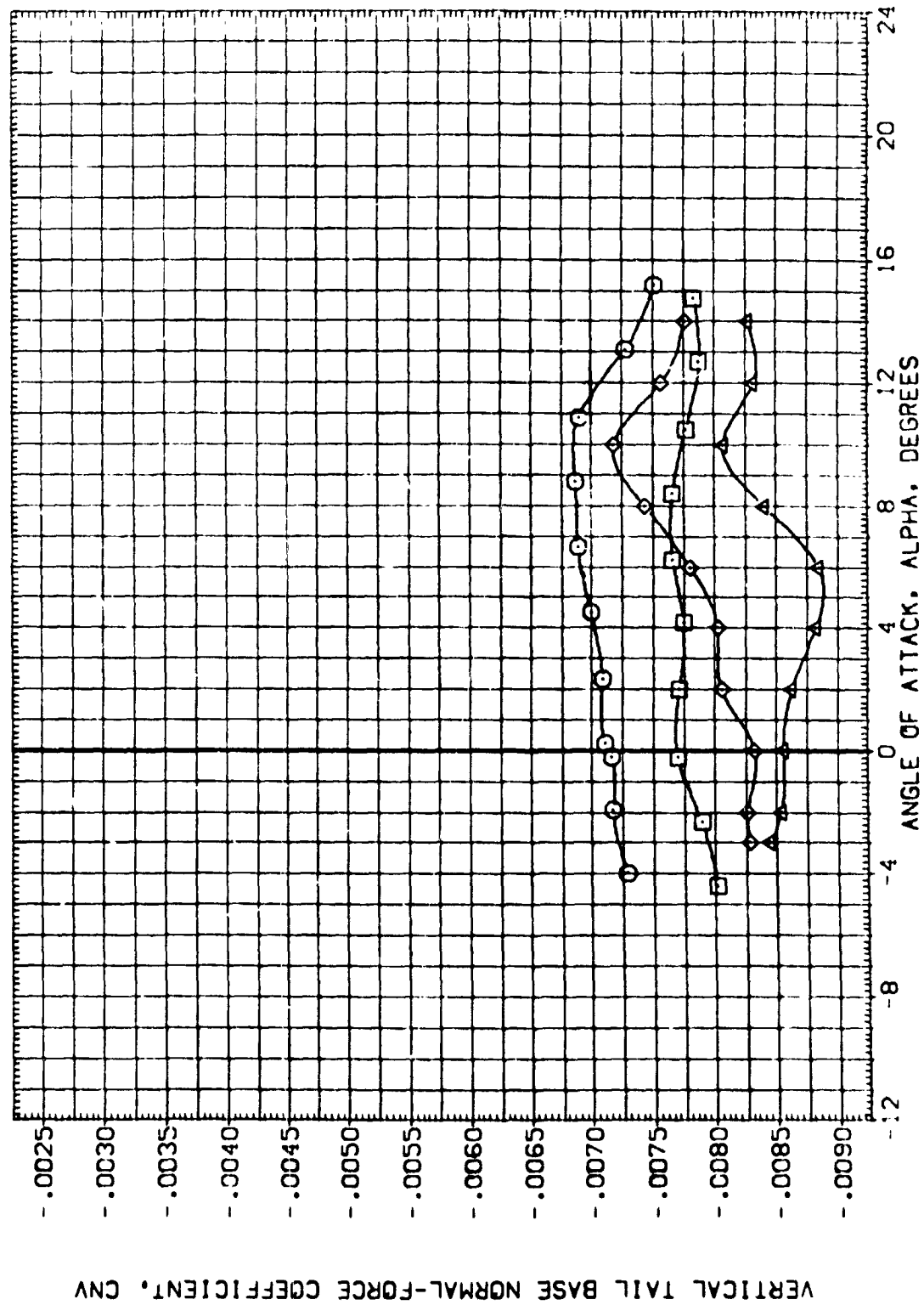


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

REMARKS = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BER019)	ARC 66-709 DASS D11A-N24
(BER020)	ARC 66-709 DASS D11A-N24
(ZER019)	ARC 66-709 DASS D11A-N24 (ADJUSTED FOR TARES)
(ZER020)	ARC 66-709 DASS D11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDF LAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

REFERENCE INFORMATION

SREF	.6053	50. FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMPP	12.6255	IN.
YMPP	.0000	IN.
ZMPP	-.3750	IN.
SCALE	.0150	

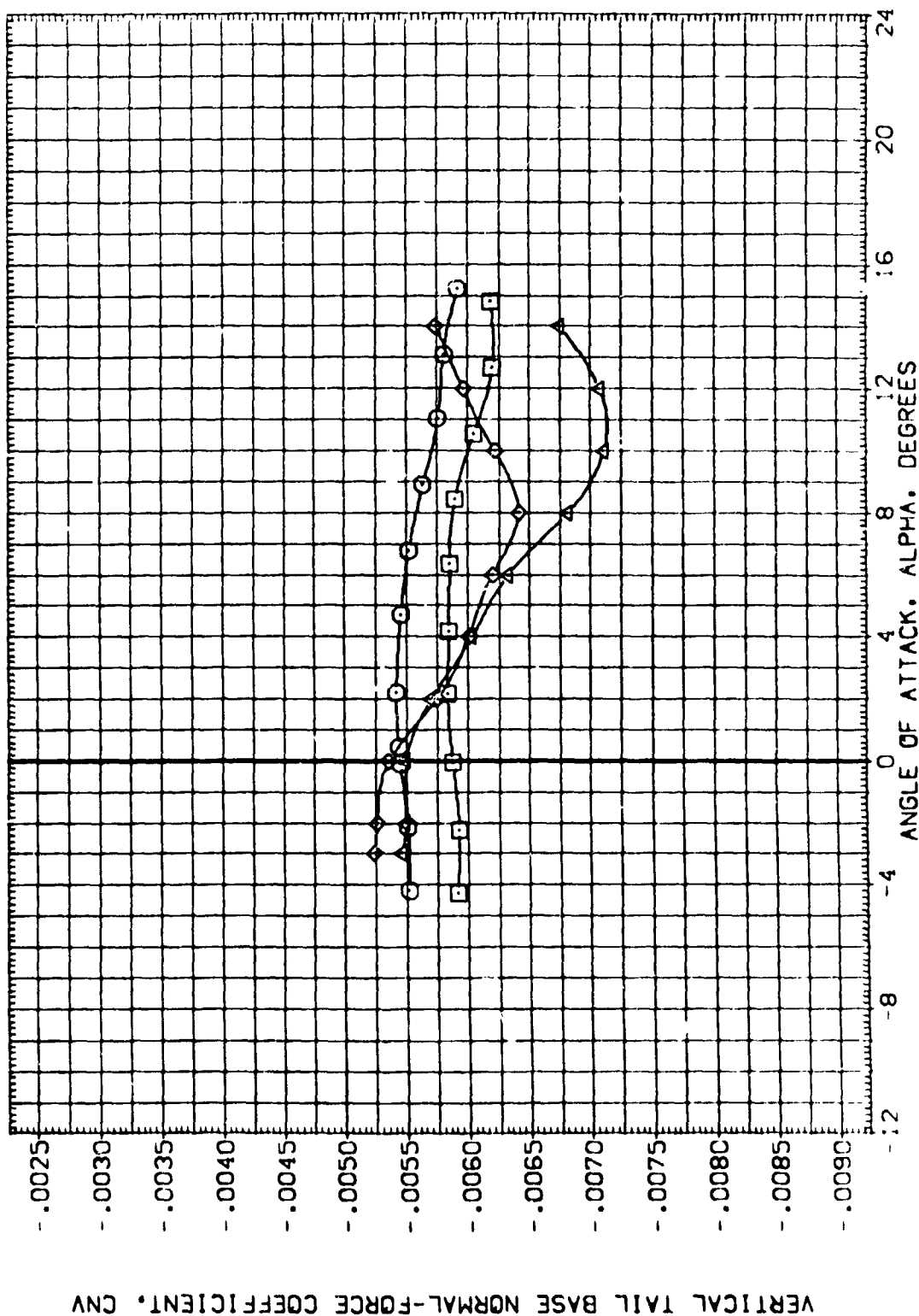


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MAC 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(B6R019)	ARC 66-709 DA59 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(B6R020)	ARC 66-709 DA59 0111A-(N24)	.000	15.000	-11.700	LREF .5925 FT.
(Z6R019)	ARC 66-709 DA59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(Z6R020)	ARC 66-709 DA59 0111A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

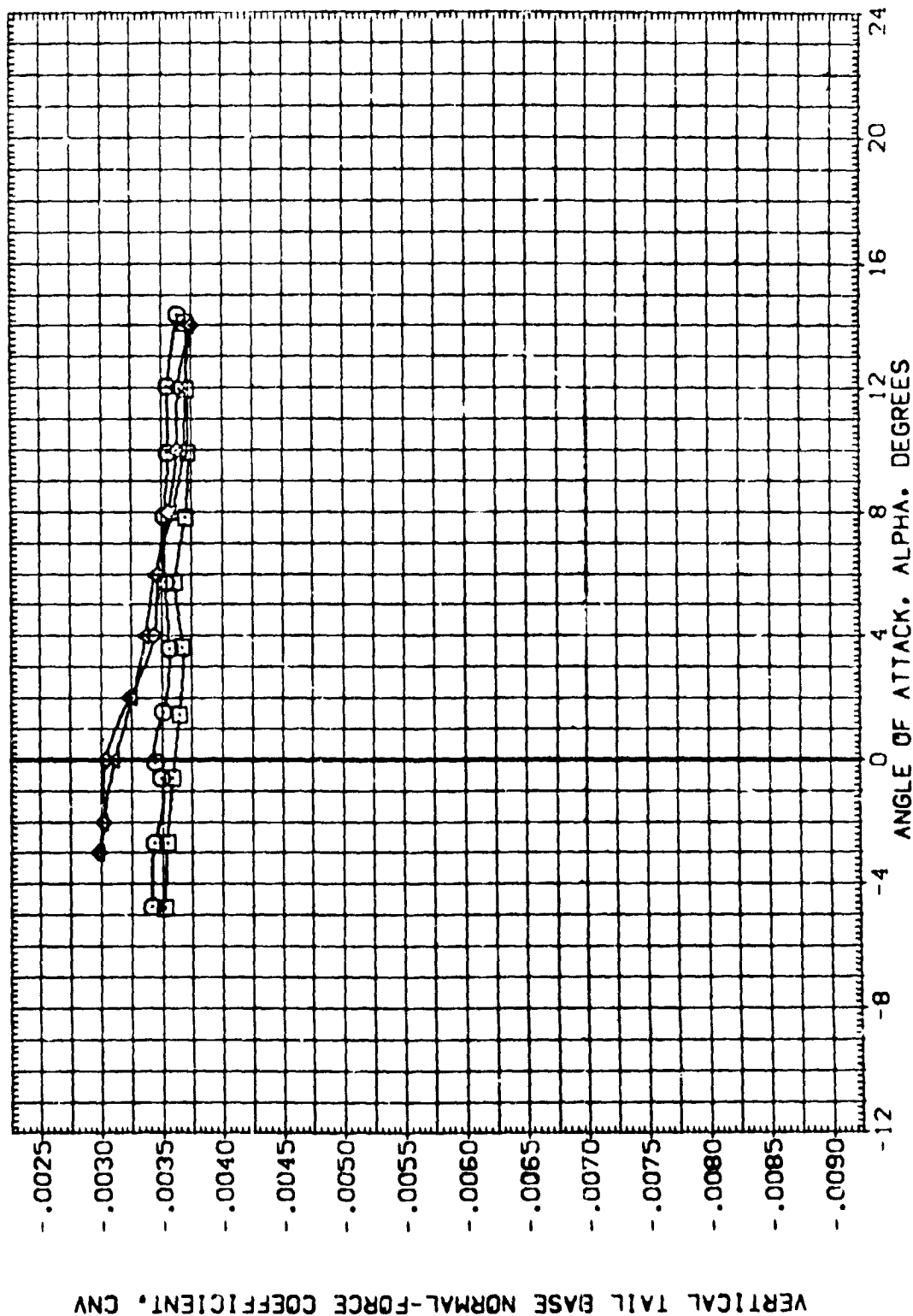


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(M)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BERO19)	ARC 66-709 DASS 011A-(N24)	.000	.000	-11.700	SREF .6053 50. FT.
(BERO20)	ARC 66-709 DASS 011A-(N24)	.000	15.000	-11.700	LREF .5935 F.
(ZER019)	ARC 66-709 DASS 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 F.
(ZER020)	ARC 66-709 DASS 011A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMPP 12.6255 IN.
					YMPP .0000 IN.
					ZMPP -.3750 IN.
					SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFW

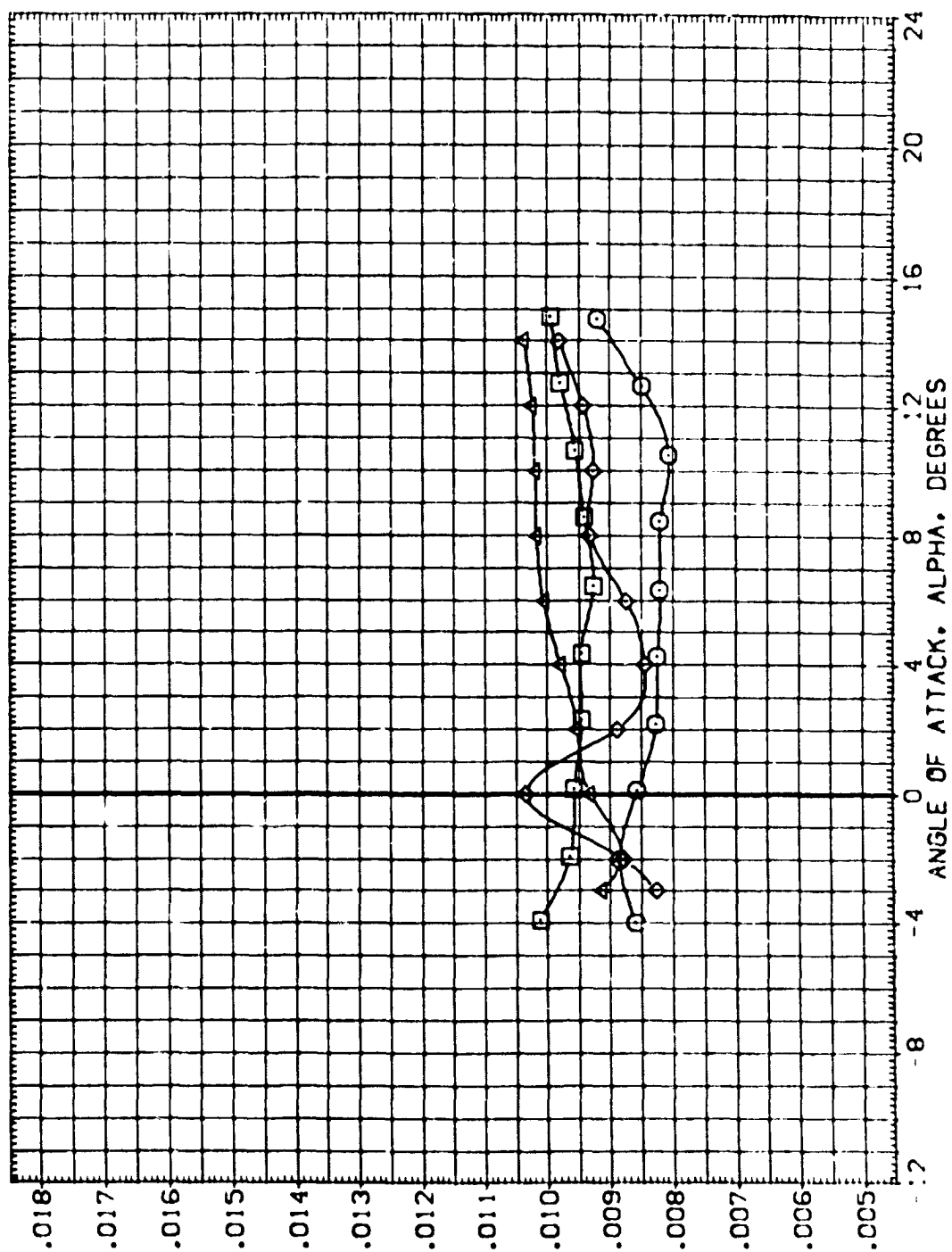


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A) MAC = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(BE R019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ. FT.
(BE R020)	ARC 66-709 0A59 0A11A-(N24)	.000	15.000	-11.700	LREF .5936 FT.
(ZE R019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(ZE R020)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XREF 12.6255 IN.
					YREF .0000 IN.
					ZREF -.3750 IN.
					SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

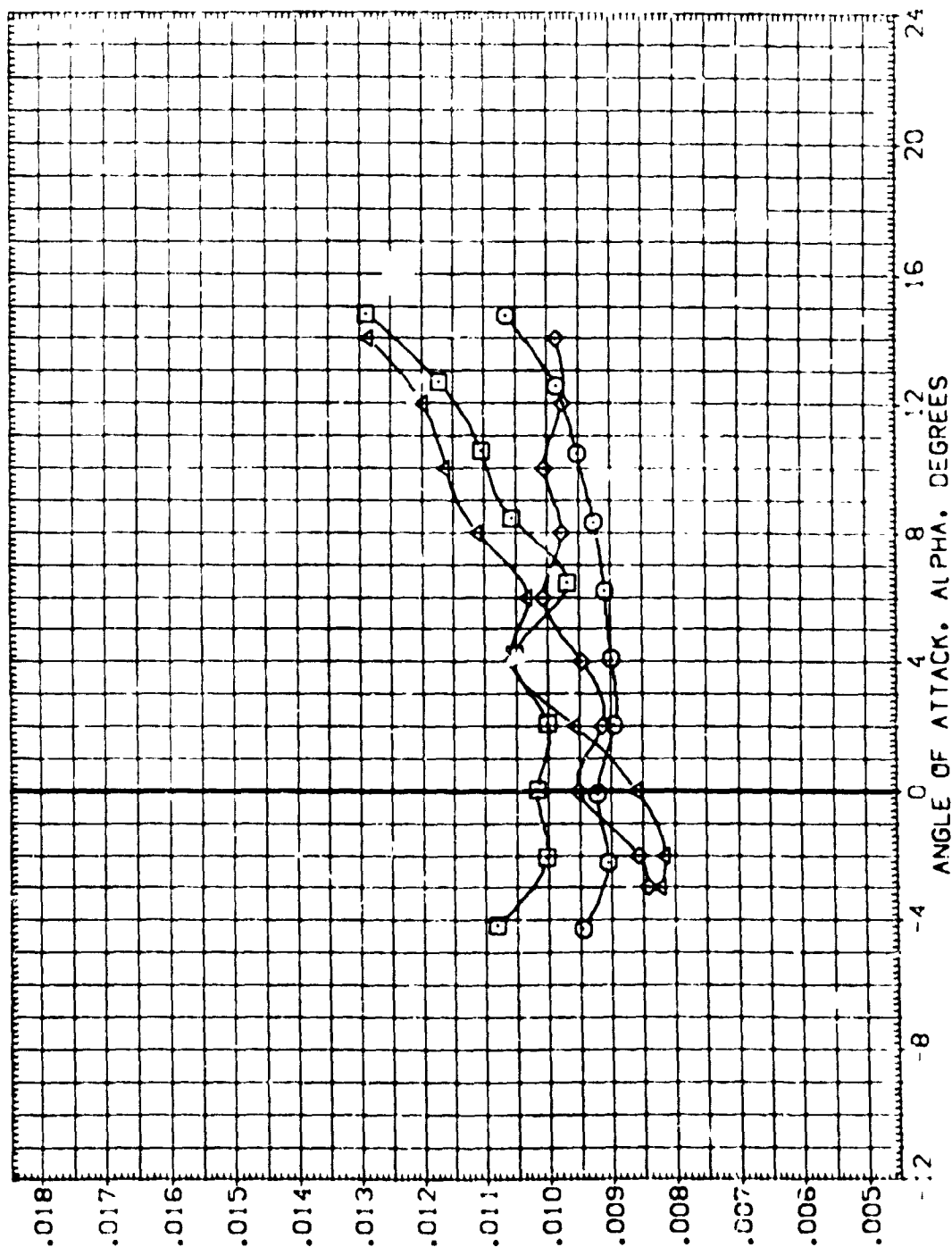


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

.80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BERO19)	ARC 66-709 0A59 0A11A-(N24)
(BERO20)	ARC 66-709 0A59 0A11A-(N24)
(ZERO19)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
(ZERO20)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

REFERENCE INFORMATION

SREF	.6053	SO.FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CM/FWD

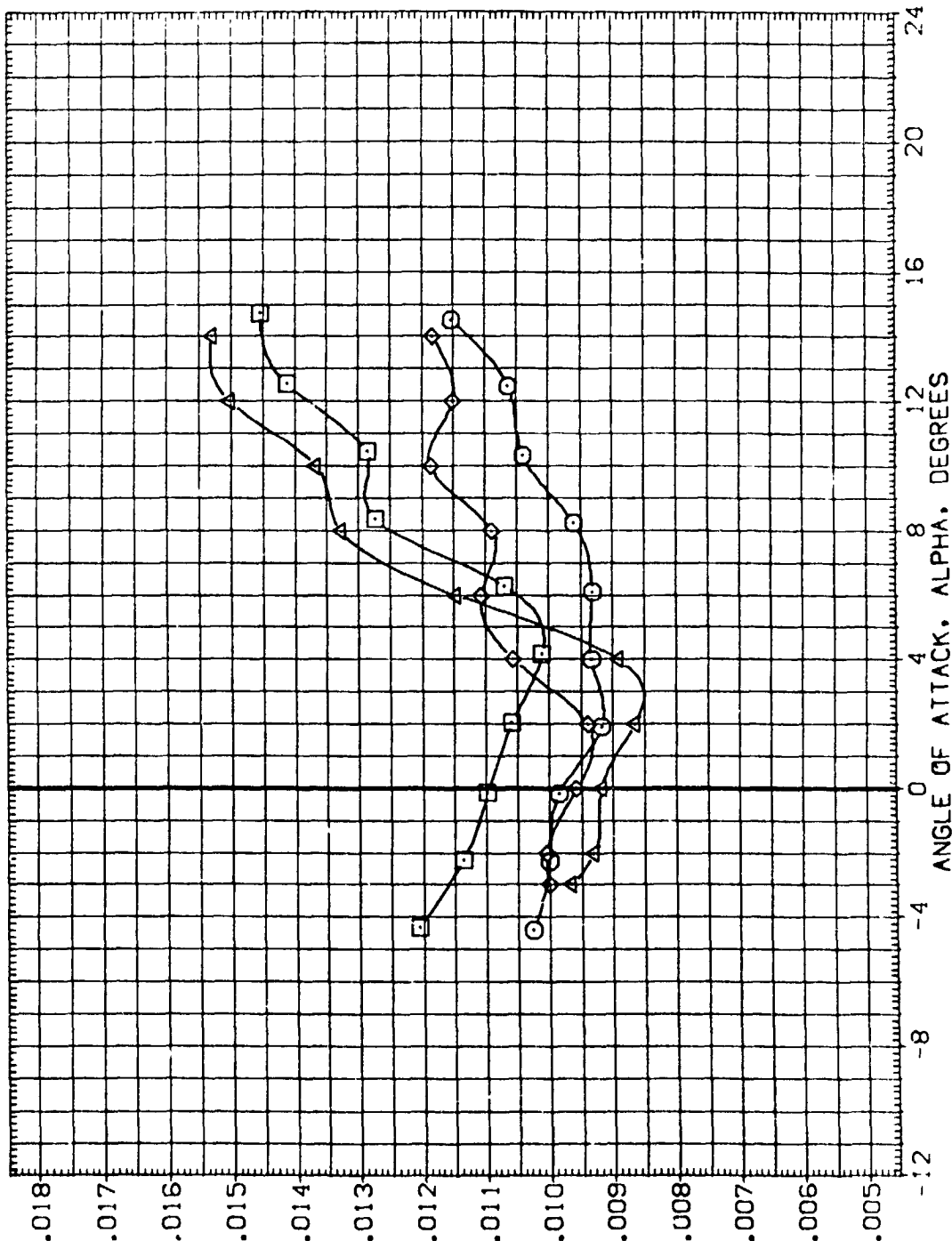


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(D)MAC" .90

DATA SET SYMBOL: [BER019] [BER020] [ZER019] [ZER020]

CONFIGURATION DESCRIPTION: ARC 66-709 DASS 011A-N24 (ADJUSTED FOR TARES)

BETA: .000 .000 .000 .000

ELEVON: .000 15.000 .000 15.000

BOFLAP: -11.700 -11.700 -11.700 -11.700

REFERENCE INFORMATION: SREF: 6053 SQ.FT. LREF: 5935 FT. BREF: 1.1710 FT. XMRP: 12.6255 IN. YMRP: .0000 IN. ZMRP: -.3750 IN. SCALE: .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

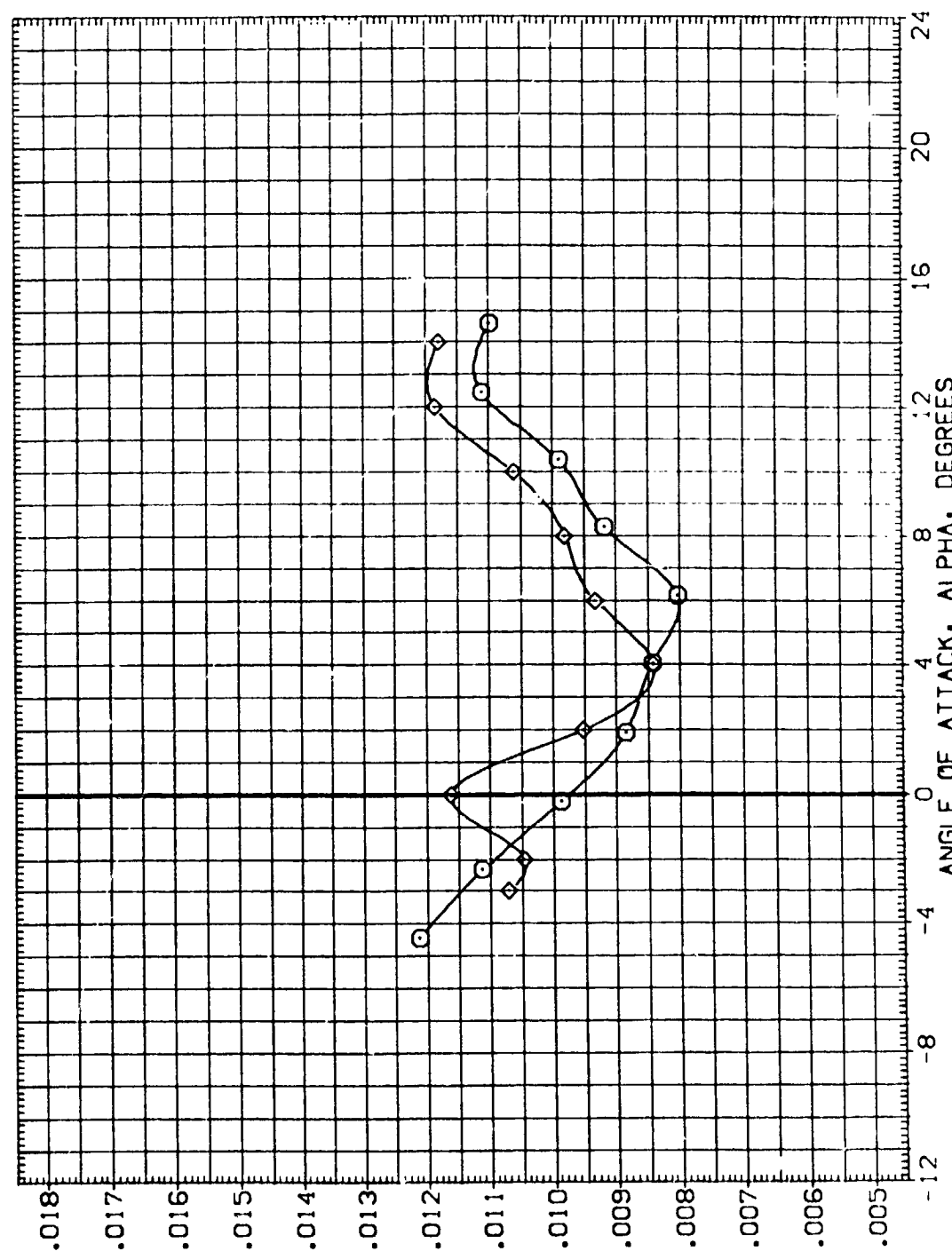


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(E)MAC = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(BER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(BER020)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(ZER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(ZER020)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

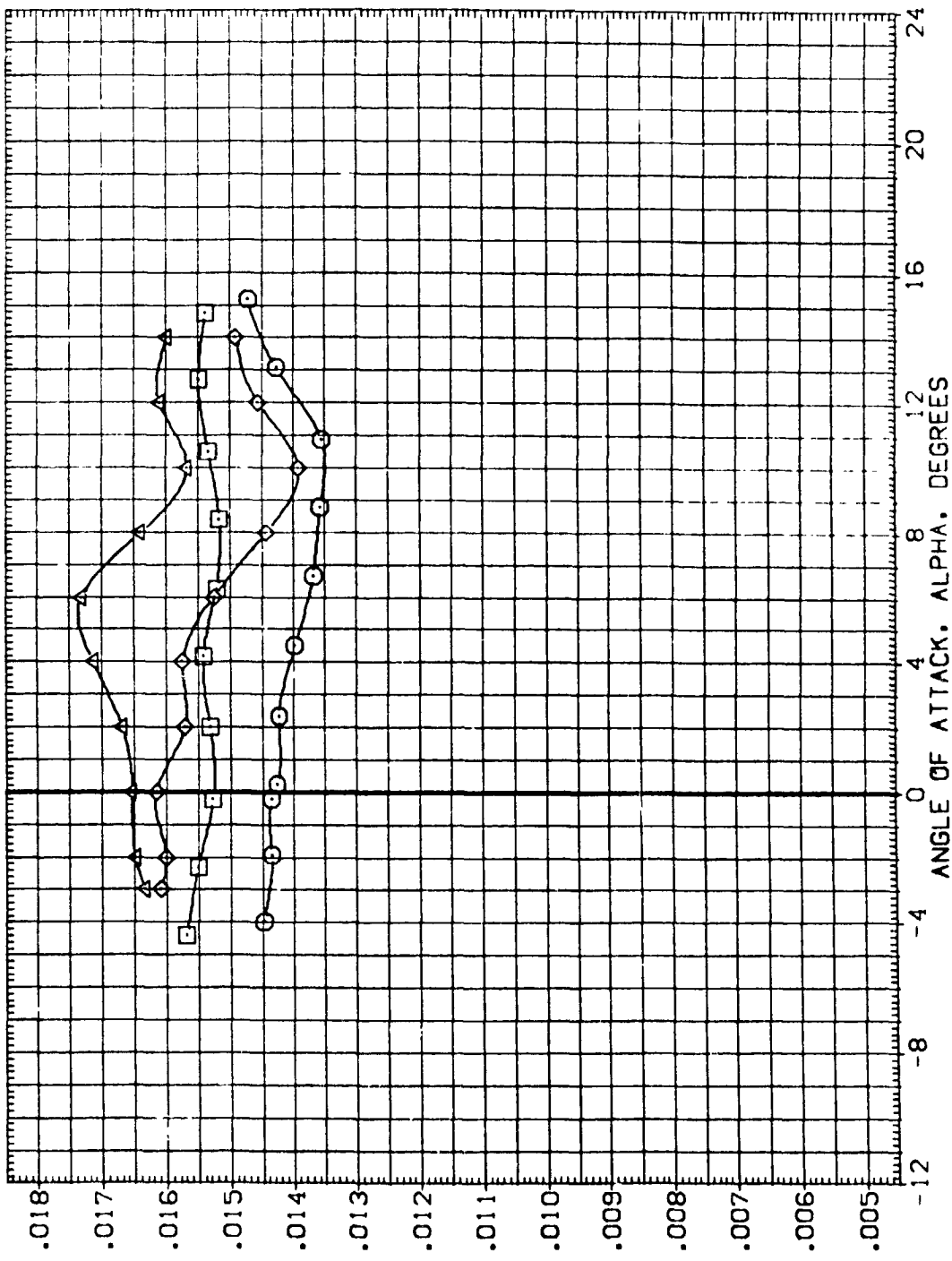


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = 1.20



DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER020)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(ZER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(ZER020)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

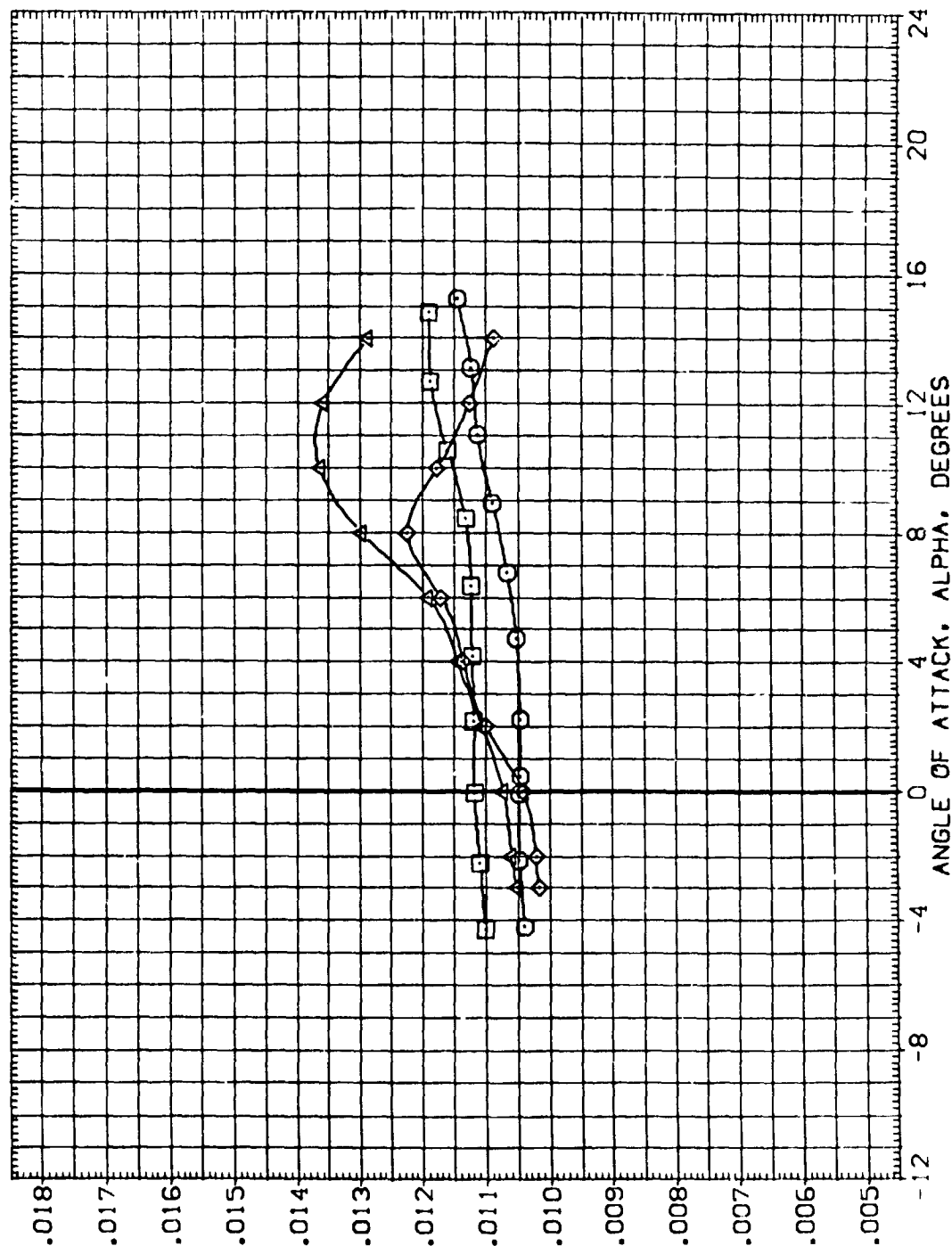


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.50

DATA SET SYMBOL: (BER019) (BER020) (ZERO19) (ZERO20)

CONFIGURATION DESCRIPTION: ARC 66-709 0A59 0A11A-(N24) ARC 66-709 0A59 0A11A-(N24) ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES) ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)

BETA: .000 .000 .000 .000

ELEVON: .000 15.000 .000 15.000

BOFLAP: -11.700 -11.700 -11.700 -11.700

REFERENCE INFORMATION: SREF .6053 SD.FT. LREF .5335 FT. BREF 1.1710 FT. IN. XMRP 12.6255 IN. YMRP .0000 IN. ZMRP -.3750 IN. SCALE .0150

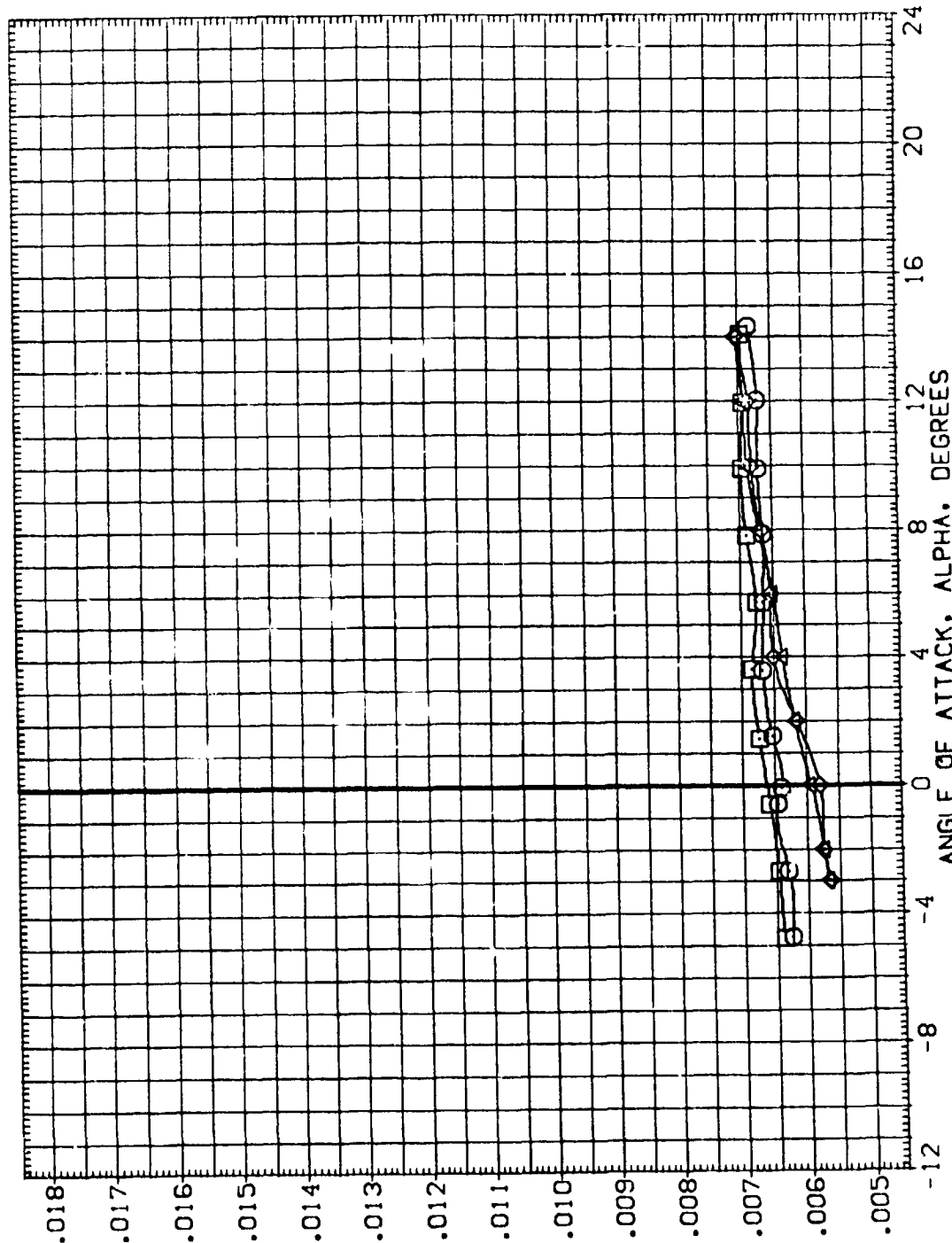


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(BER019)	□	ARC 66-709 QAS9	Q111A-(N24)
(BER020)	△	ARC 66-709 QAS9	Q111A-(N24)
(ZER019)	○	ARC 66-709 QAS9	Q111A-N24 (ADJUSTED FOR TARES)
(ZER020)	×	ARC 66-709 QAS9	Q111A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDF LAP

BETA	ELEVON	BDF LAP
.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

REFERENCE INFORMATION

REFERENCE	INFORMATION
SREF	.6053 SQ.FT.
LREF	.5935 FT.
BREF	1.1710 FT.
YMRP	12.625 IN.
ZMRP	.0000 IN.
SCALE	-.3750 IN.

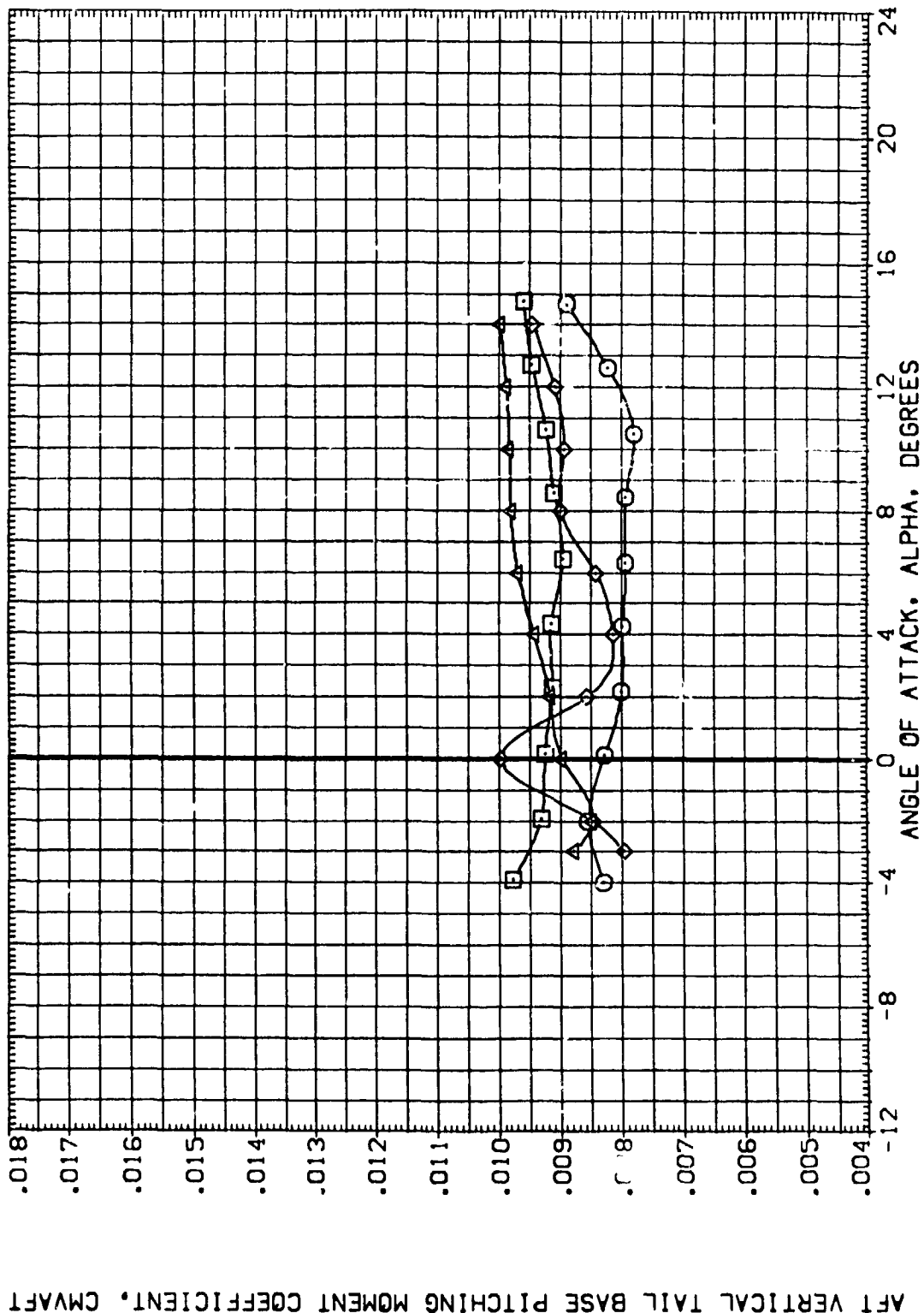


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(B019)	ARC 66-709 DASS DA11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(B020)	ARC 66-709 DASS DA11A-(N24)	.000	.000	-11.700	LREF .5836 FT.
(Z019)	ARC 66-709 DASS DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(Z020)	ARC 66-709 DASS DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

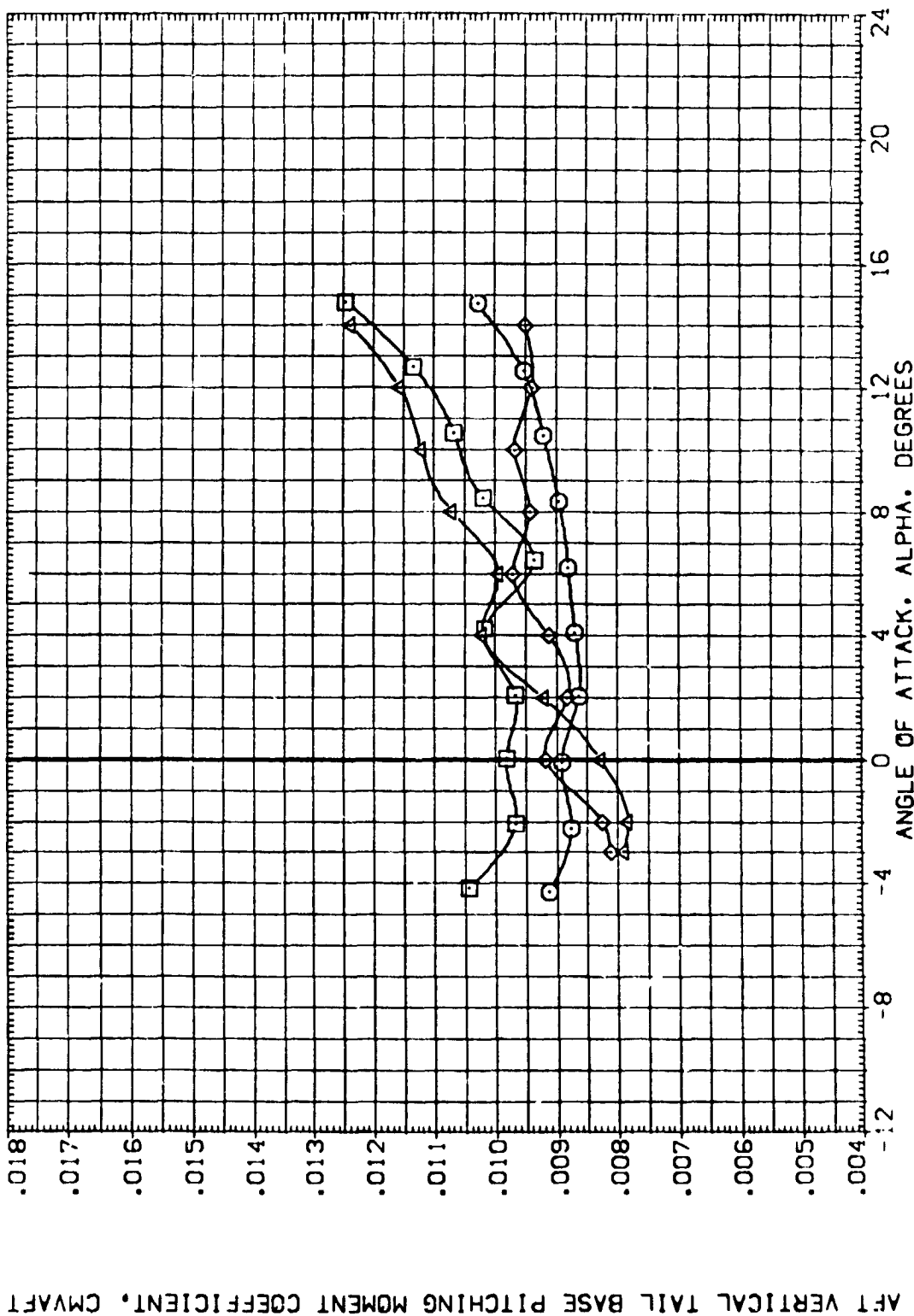


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ZERO19) ARC 66-709 QAS9 0A11A-(N24)

(ZERO20) DATA NOT AVAILABLE

(ZERO19) ARC 66-709 QAS9 011A-N24 (ADJUSTED FOR TARES)

(ZERO20) DATA NOT AVAILABLE

BETA ELEVON BDF LAP

.000 .000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 .000 -11.700

REFERENCE INFORMATION

SREF 6053 SQ.FT.

LREF 5935 F²

BREF 1.1710 F²

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

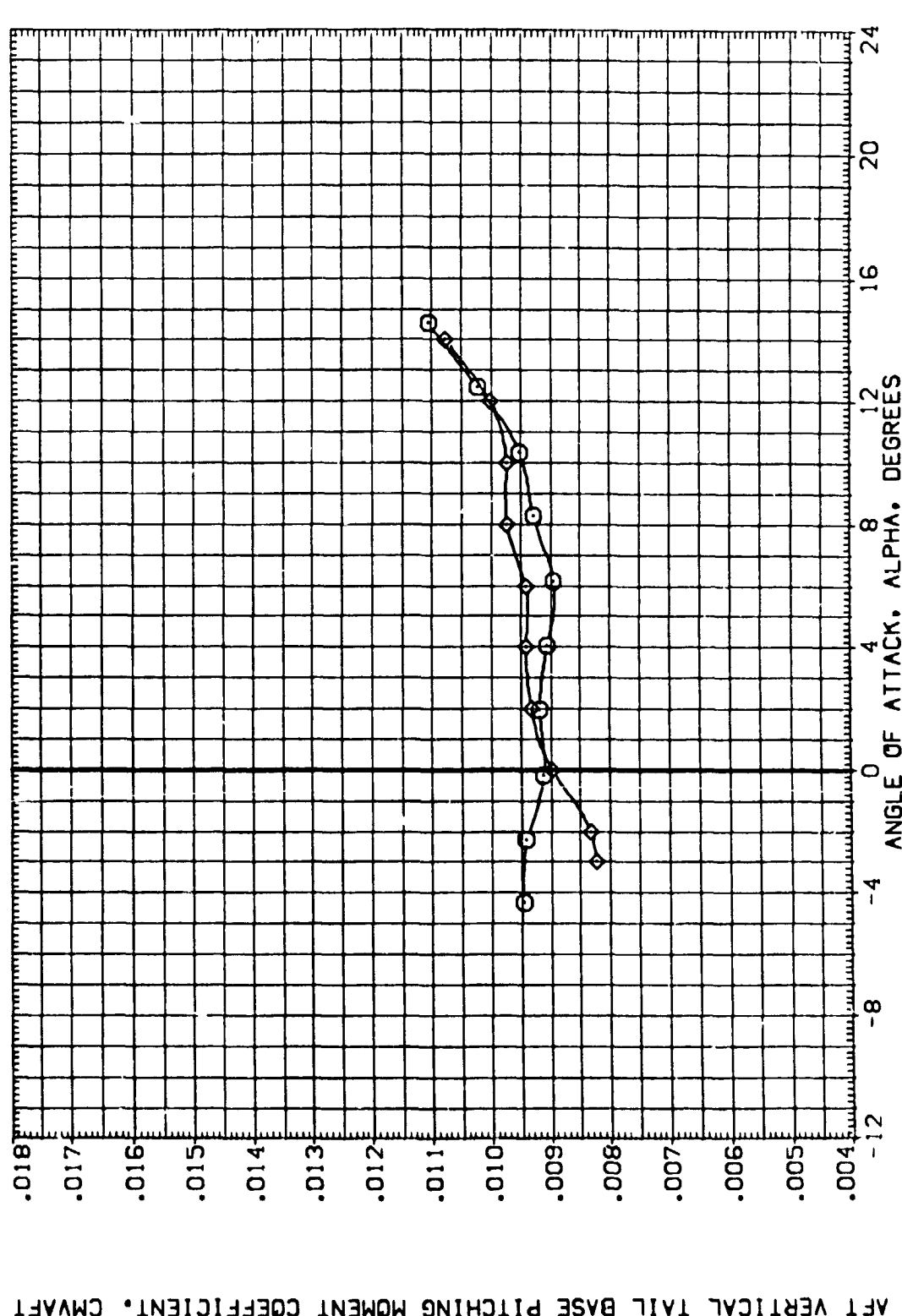


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MACII = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BDF LAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(B6R018)	ARC 66-708 BAS9 0111A-N24	.000	.000	-11.700	SREF .6053 SQ.FT.
(B6R020)	ARC 66-708 BAS9 0111A-N24	.000	15.000	-11.700	LREF .5935 FT.
(Z6R019)	ARC 66-708 BAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.171C IN.
(Z6R020)	ARC 66-708 BAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

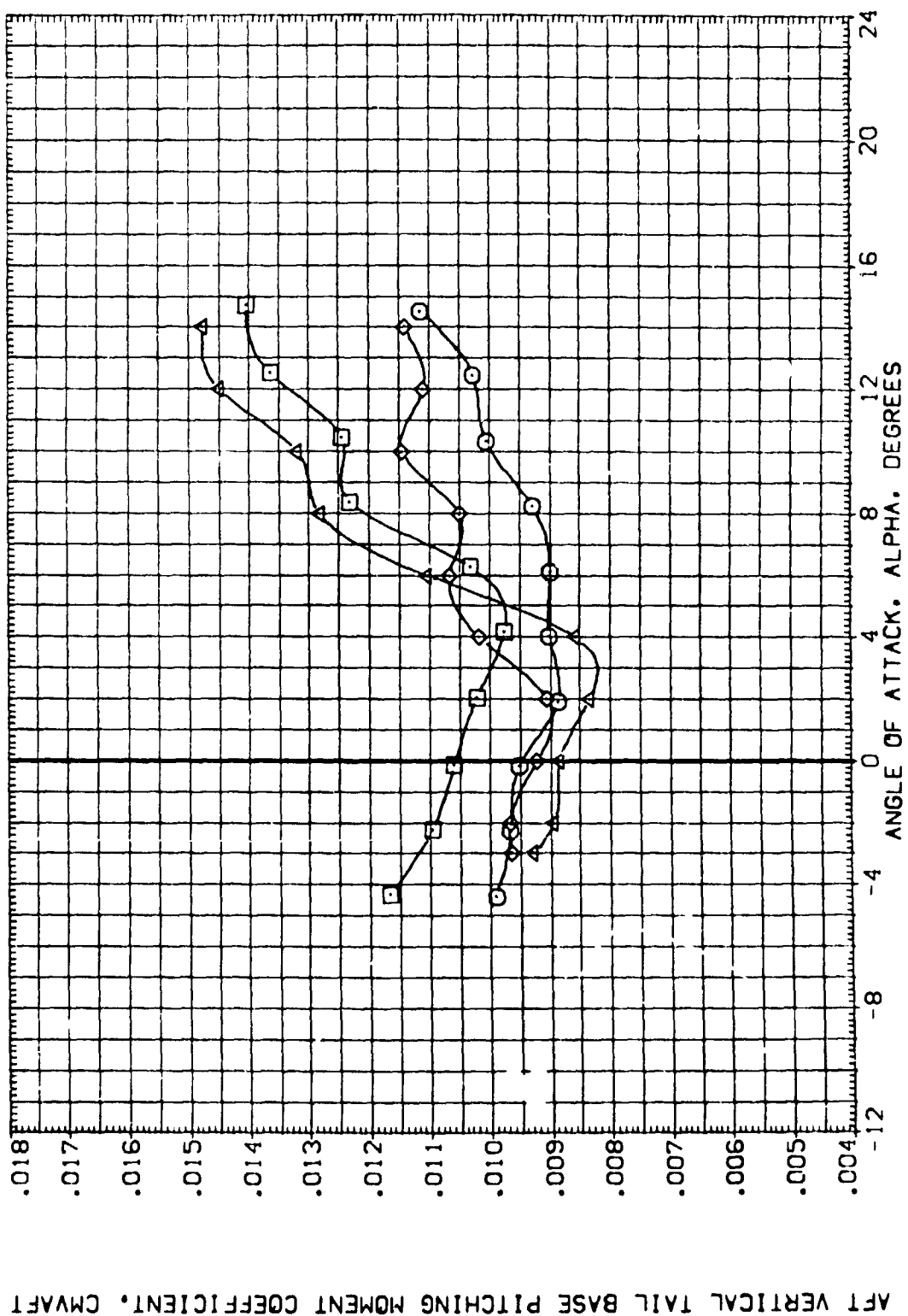


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(D)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (BER019) ARC 66-708 OAS9 0111A-(N24)
 (BER020) DATA NOT AVAILABLE
 (ZER019) ARC 66-708 OAS9 0111A-N24 (ADJUSTED FOR TARES)
 (ZER020) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

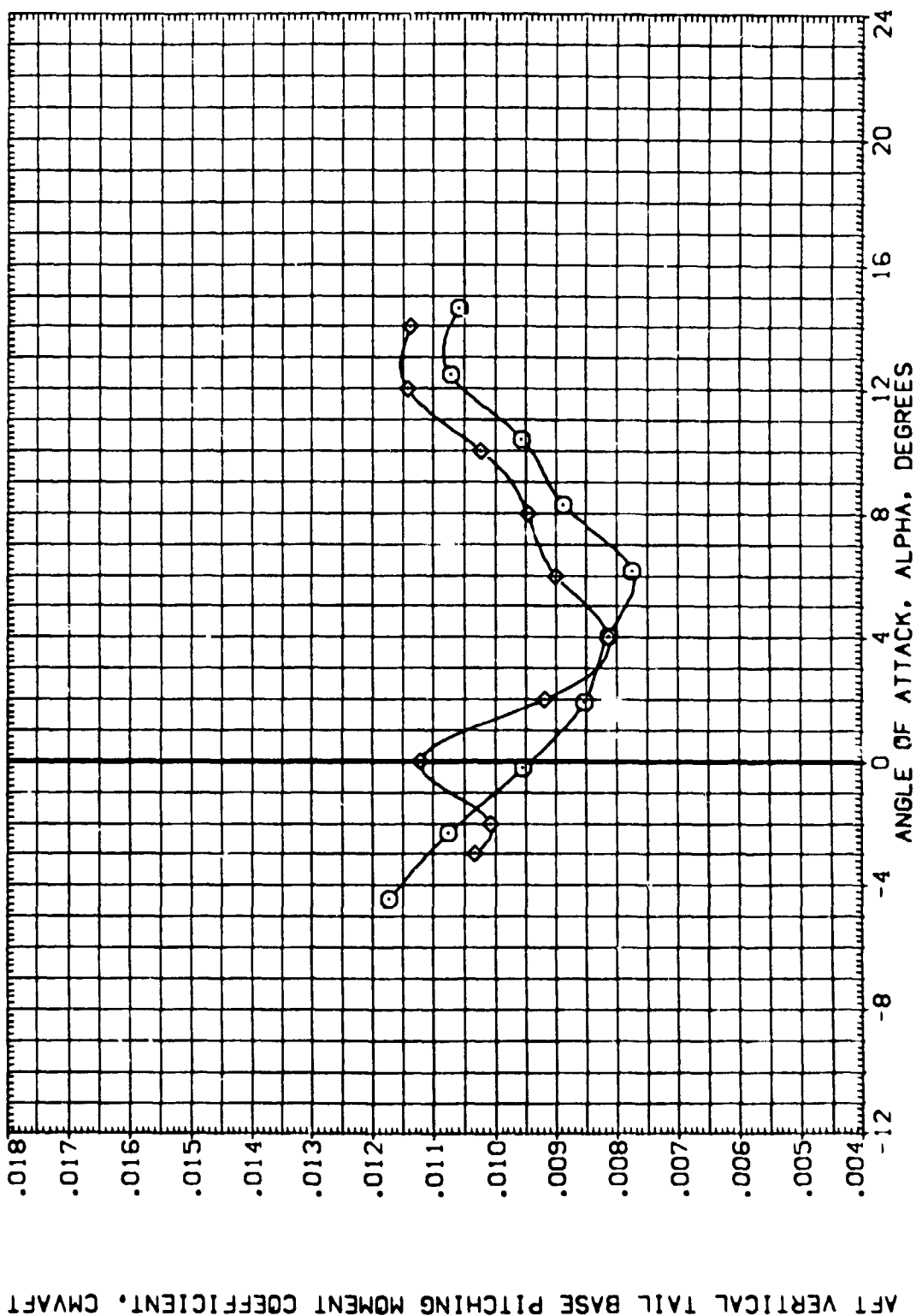


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (B6R019) ARC 66-709 0A59 0A11A-(N24)
 (B6R020) ARC 66-709 0A59 0A11A-(N24)
 (X6R019) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
 (X6R020) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDF LAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .9935 FT.
 BREF 1.1710 IN.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

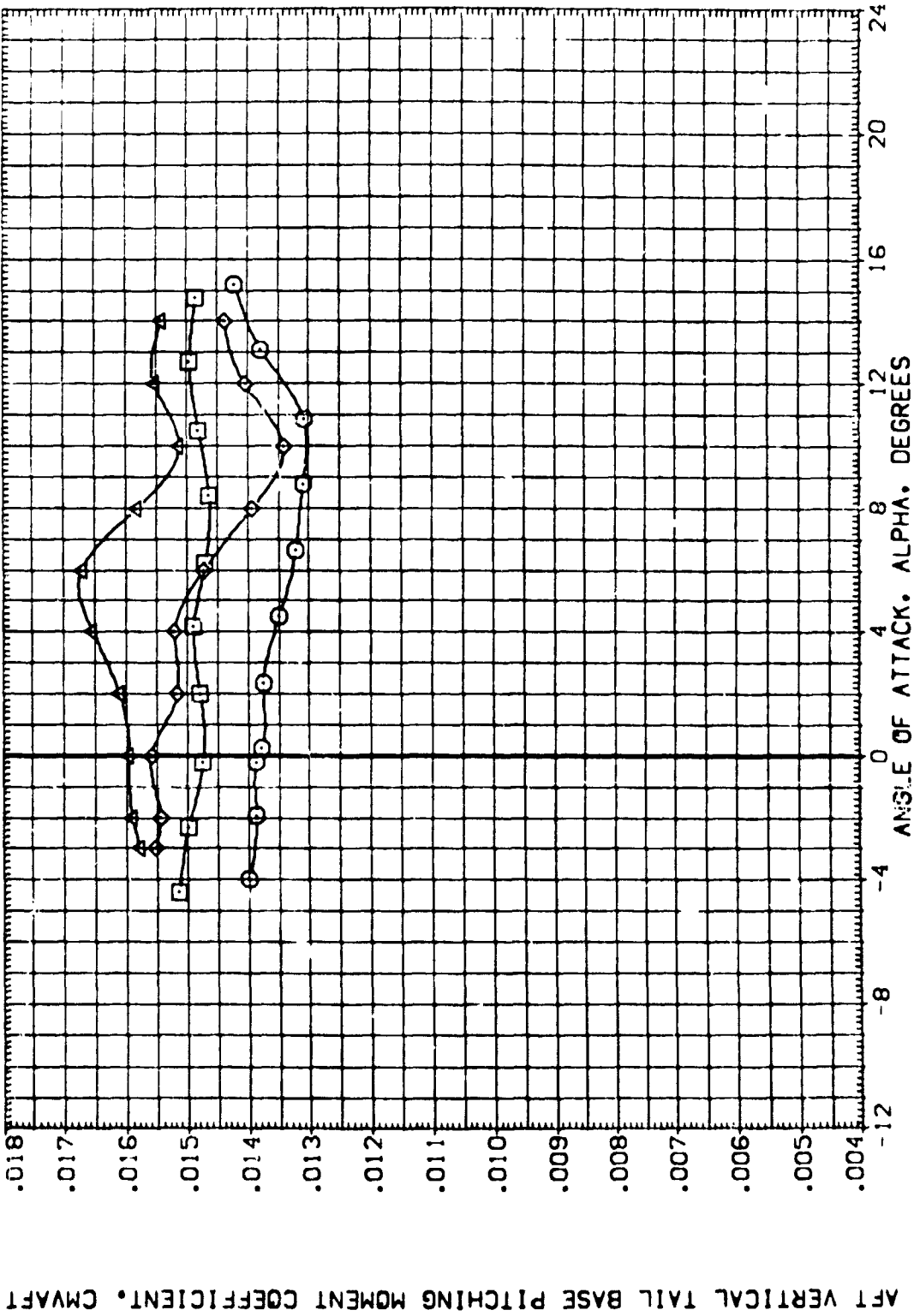


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BERO19)	ARC 66-709 QAS9 0111A-N24	.000	.000	-11.700	SREF 6053 50.FT.
(BERO20)	ARC 66-709 QAS9 0111A-N24	.000	15.000	-11.700	LREF 5936 FT.
(ZERO19)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 IN.
(ZERO20)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	XRRP 12.6255 IN.
					YRRP .0000 IN.
					ZRRP -.3750 IN.
					SCALE .0150

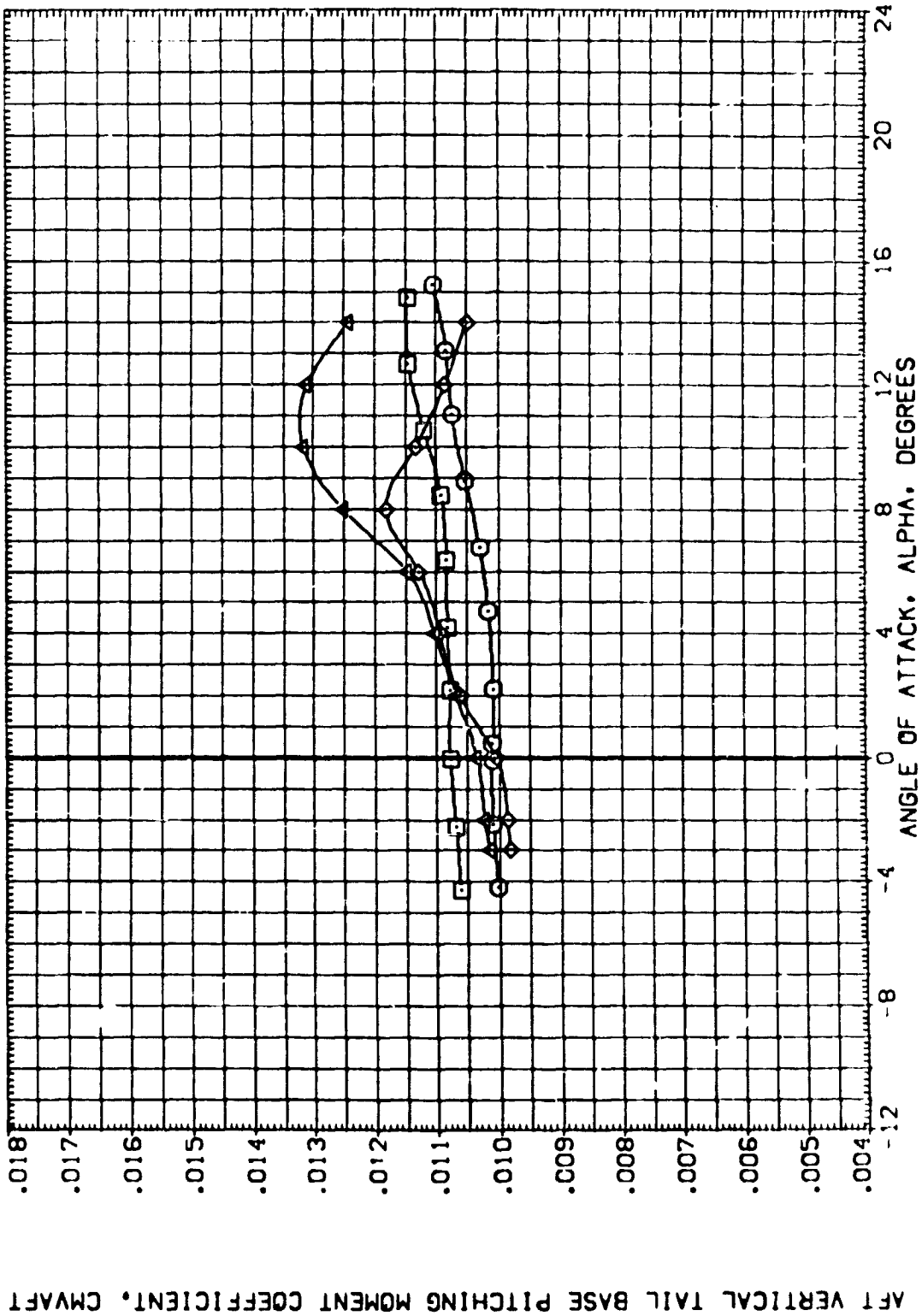
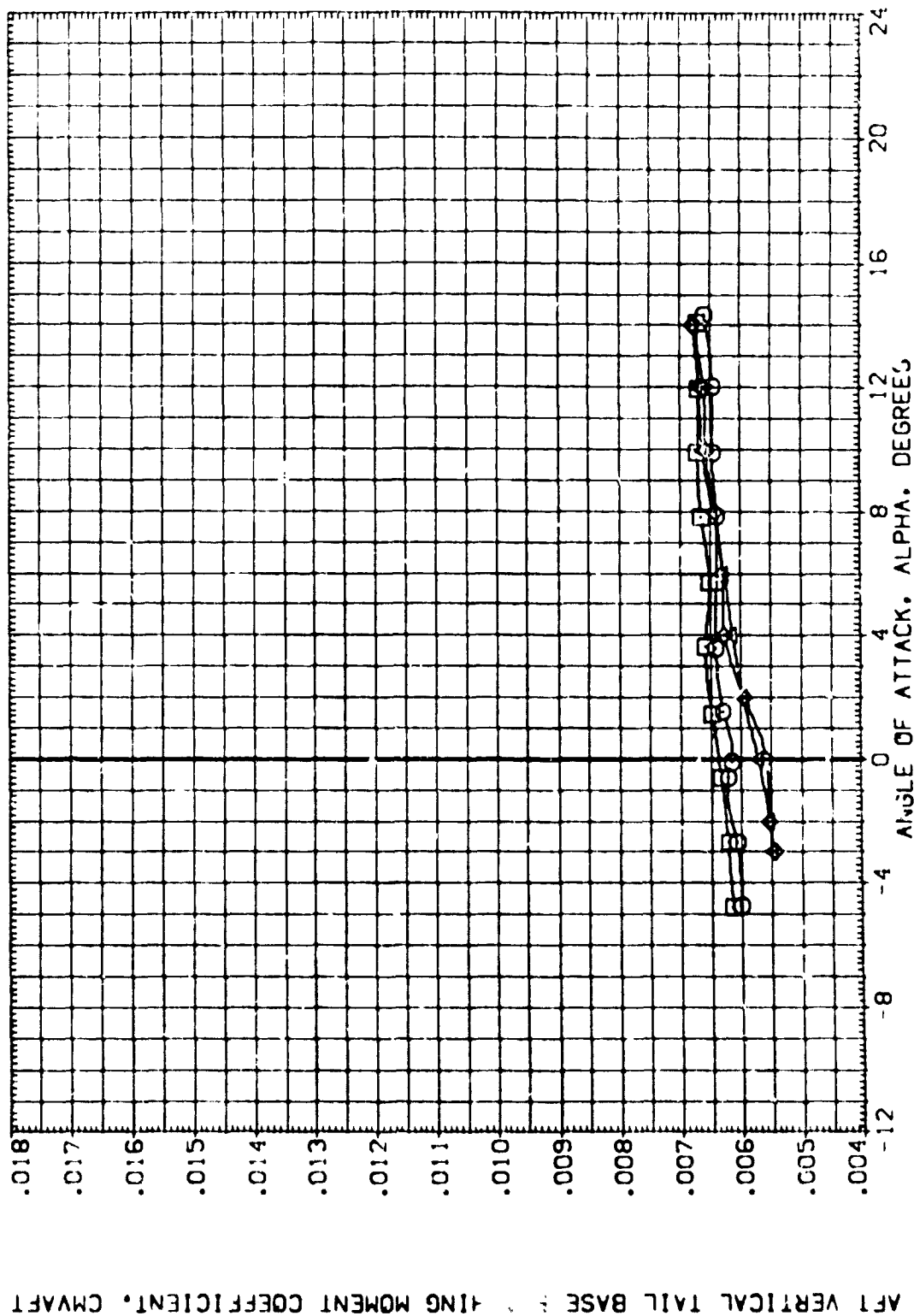


FIG. 13 ELEVON EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(B2018)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(B2020)	ARC 66-709 0A59 0A11A-(N24)	.000	15.000	-11.700	LREF .5936 FT.
(B2019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	BREF 1.1710 FT.
(B2020)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	15.000	-11.700	MREF 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150



DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(1ER019)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
(1ER022)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP .0000 IN.
(1ER023)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	SCALE .0150

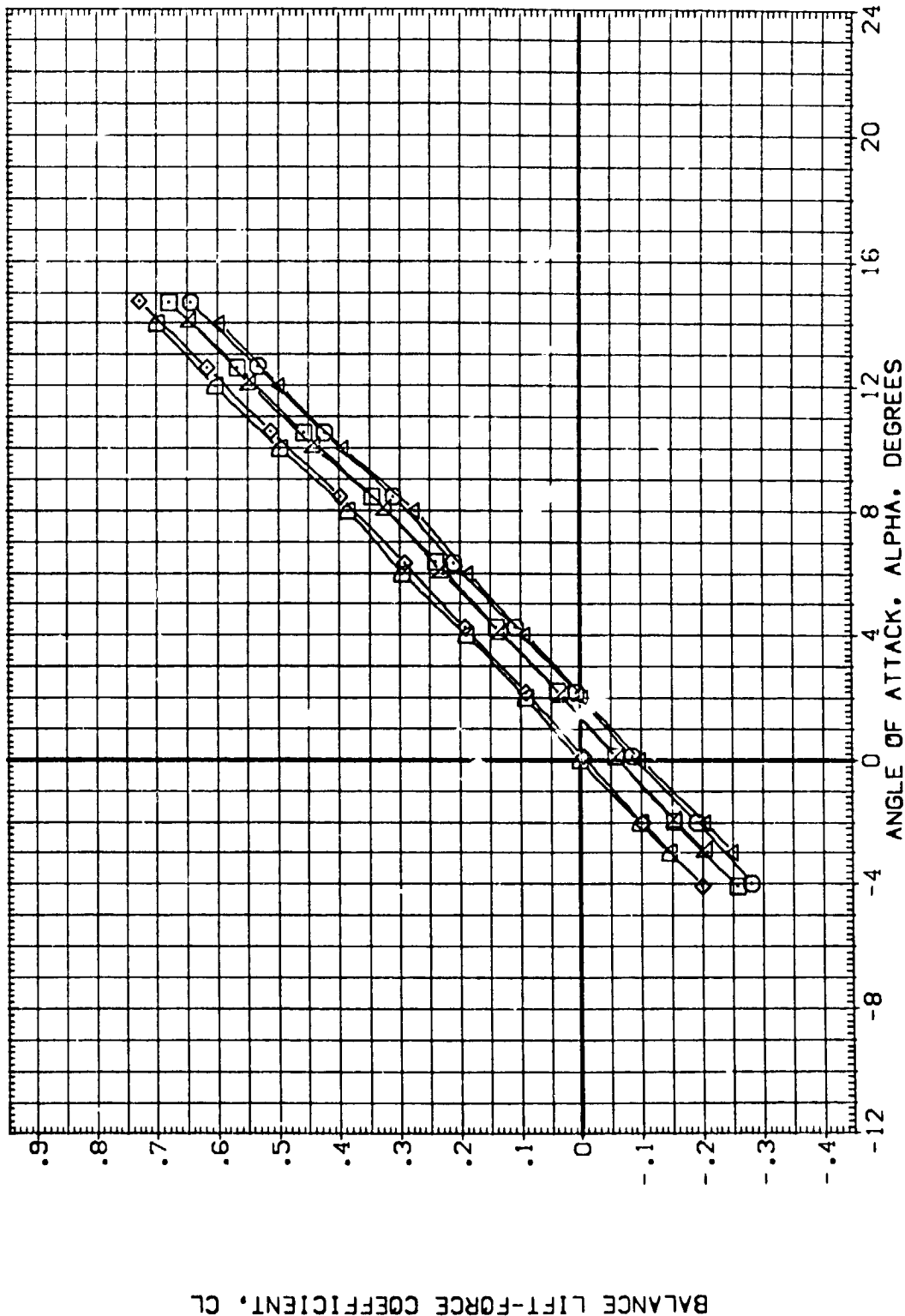


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER019) DATA NOT AVAILABLE

(CER022) ARC 66-709 0A59 0A11A-(N24)

(CER023) ARC 66-709 0A59 0A11A-(N24)

(IER019) DATA NOT AVAILABLE

(IER022) DATA NOT AVAILABLE

(IER023) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDF LAP

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

REFERENCE INFORMATION

SREF .8053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3753 IN.

SCALE .0150

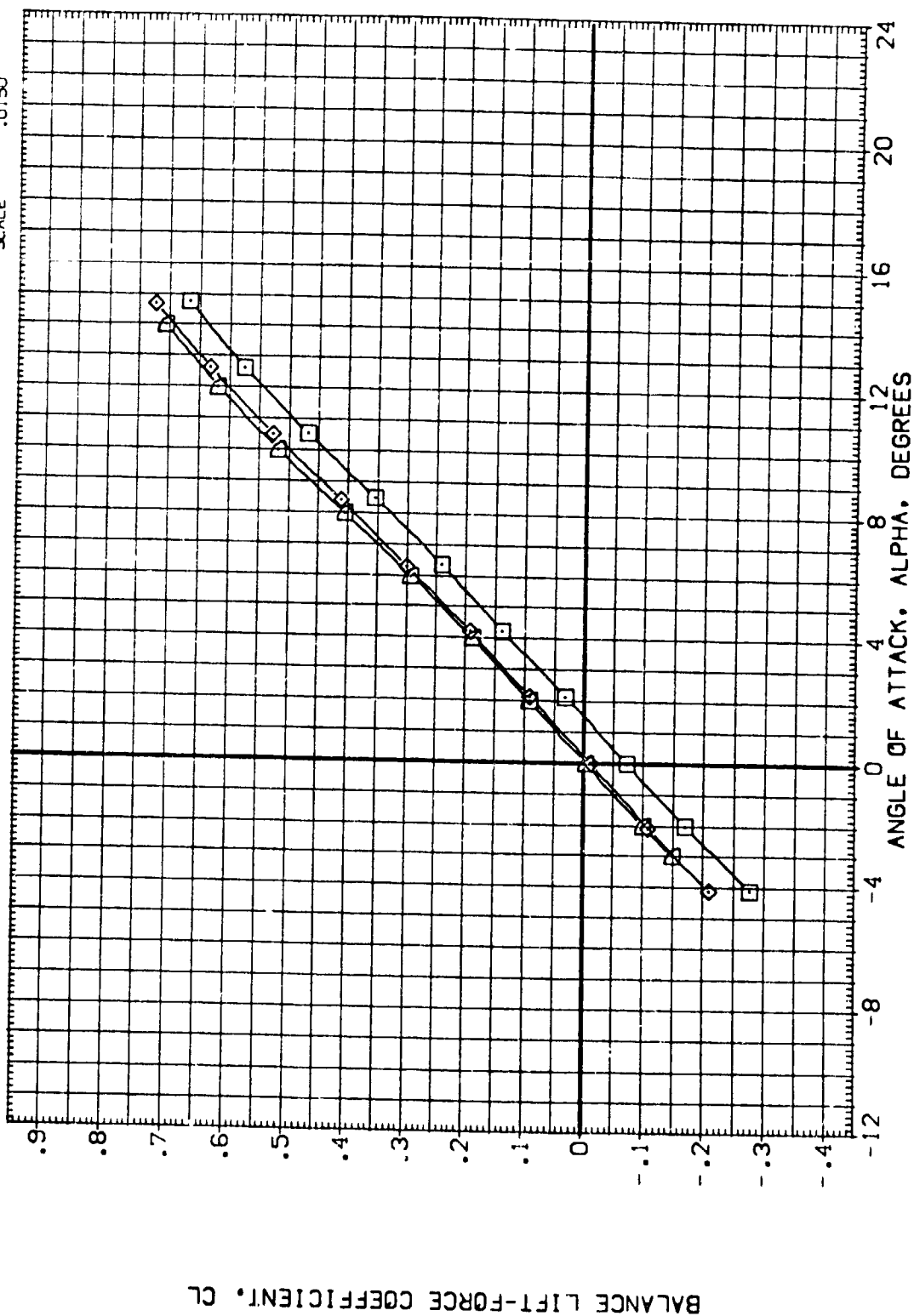


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
[CER019]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
[CER022]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
[CER023]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
[CER019]	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 2.6255 IN.
[CER022]	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
[CER023]	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

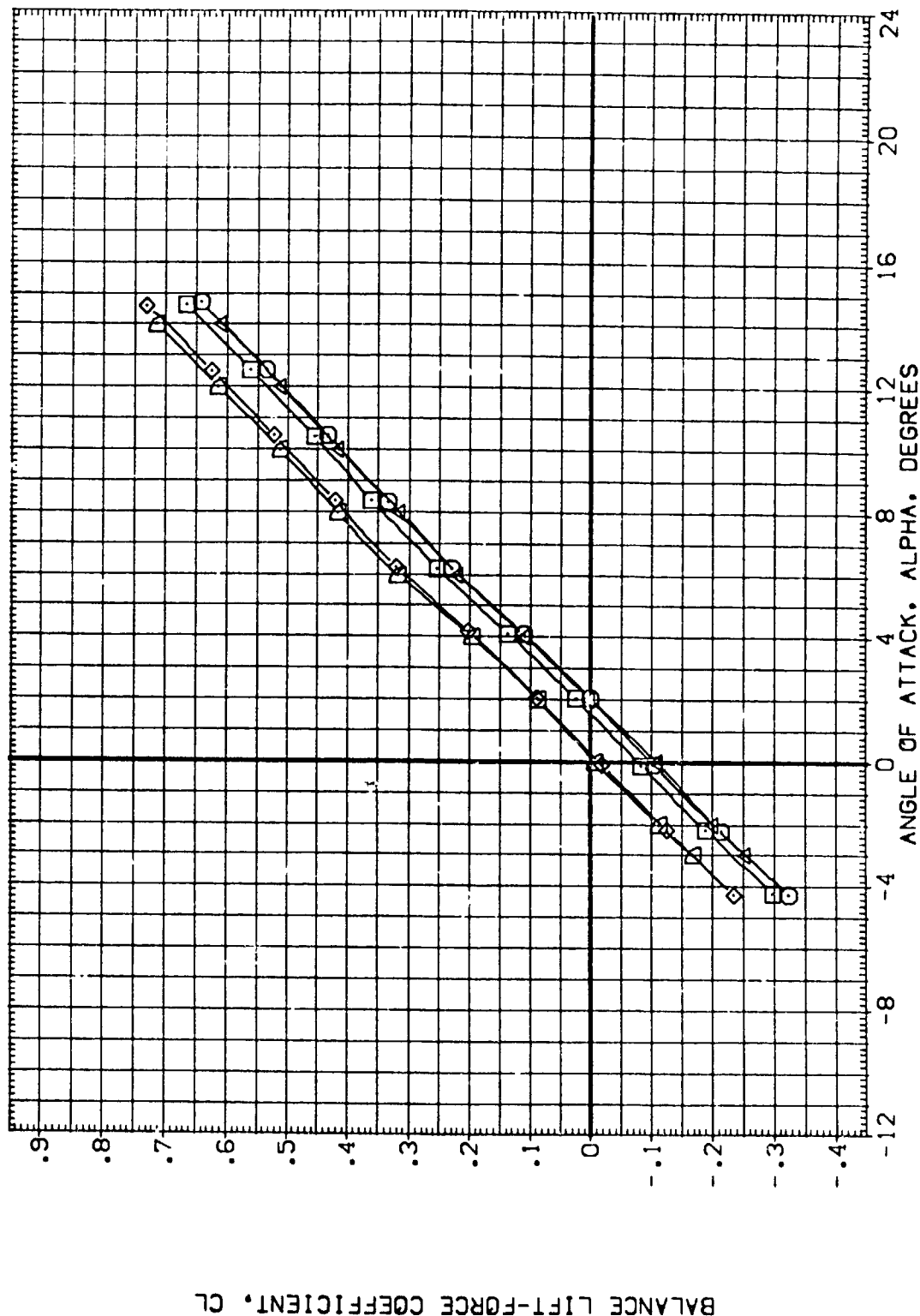


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 {CER019} ARC 66-709 OA59 0111A-(N24)
 {CER022} DATA NOT AVAILABLE
 {CER023} DATA NOT AVAILABLE
 {IER019} ARC 66-709 OA59 0111A-N24 (ADJUSTED FOR TARES)
 {IER022} DATA NOT AVAILABLE
 {IER023} DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

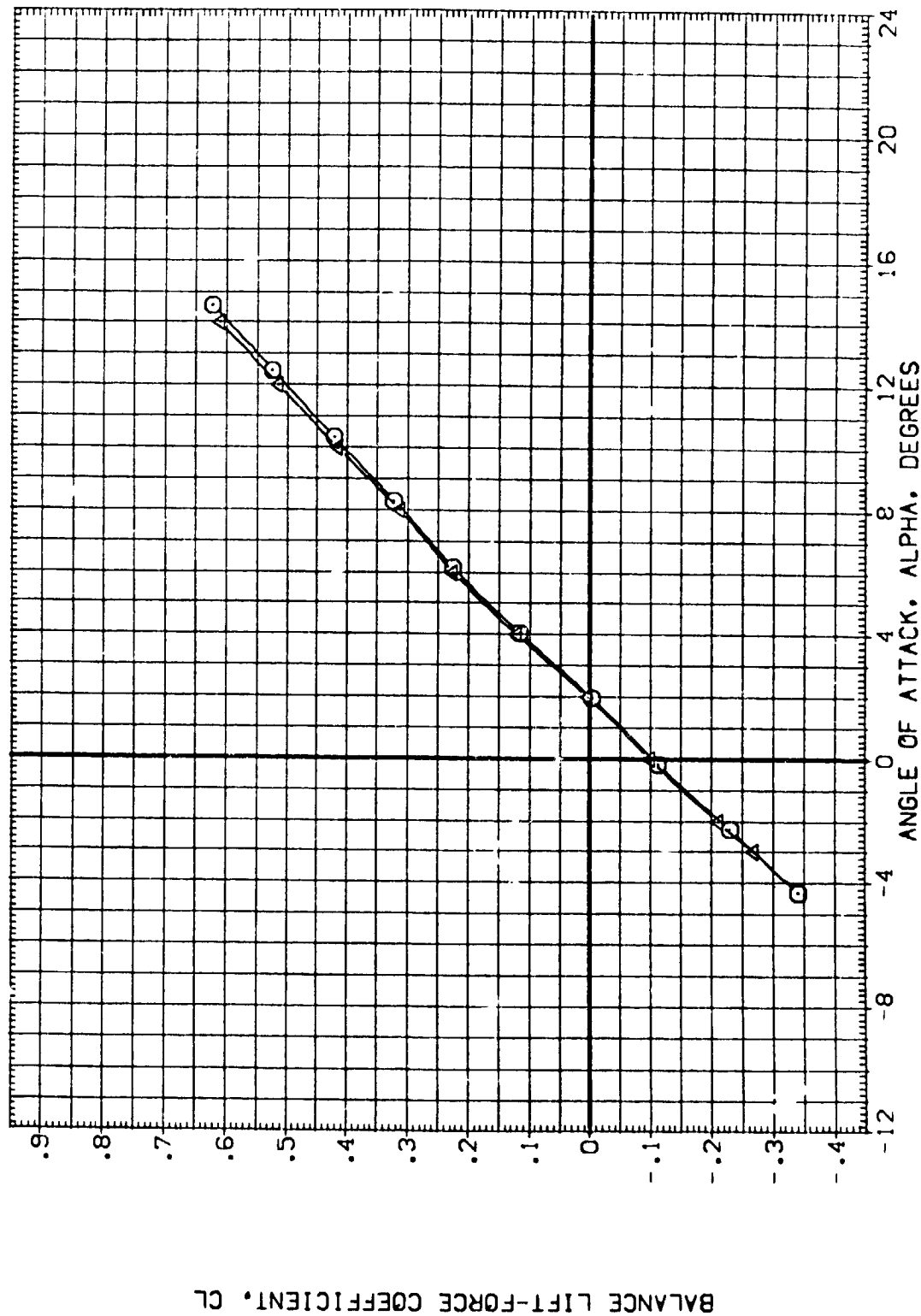


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(O)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(HER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(HER022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(HER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

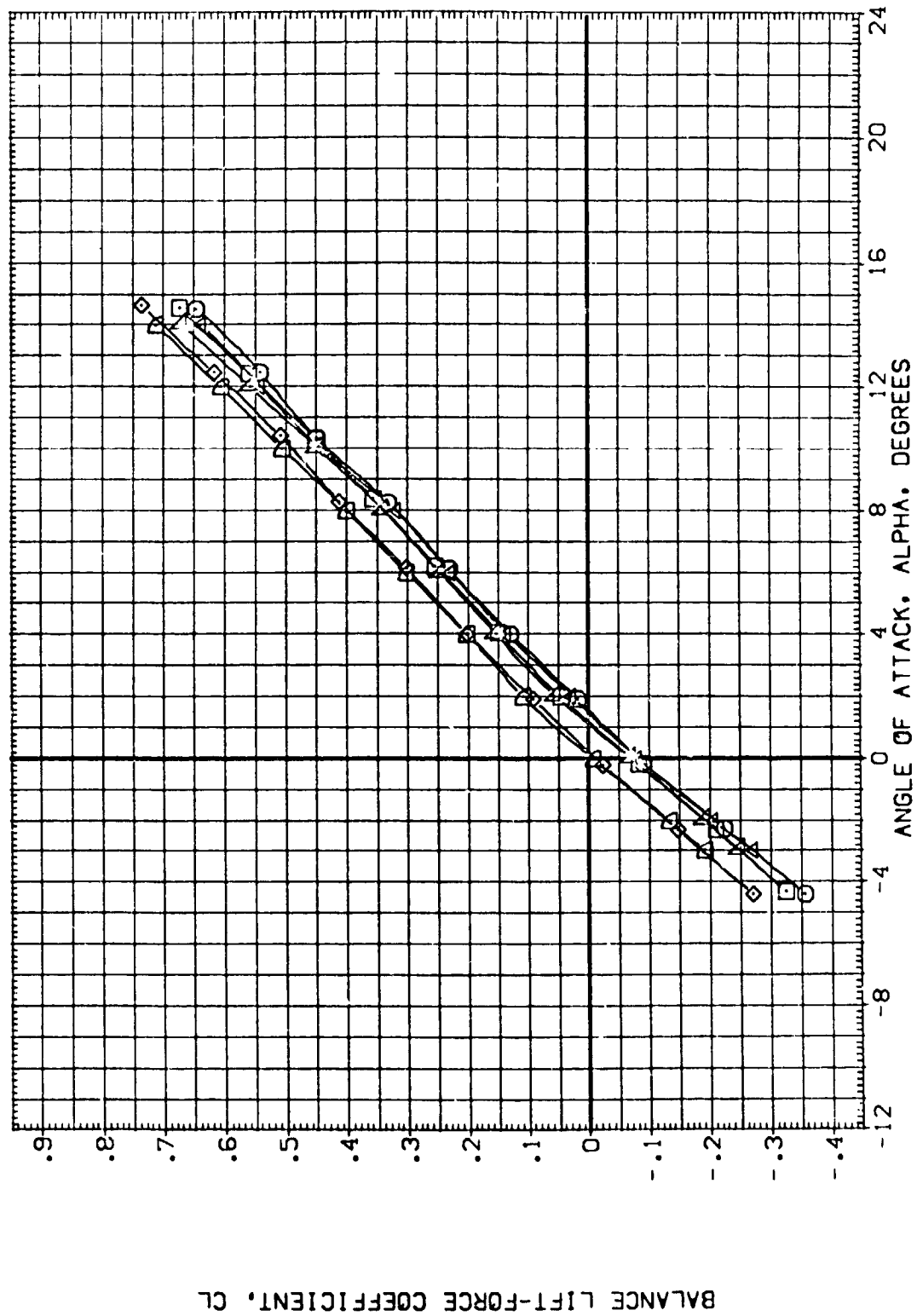


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 QAS9 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(CERO22)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(CERO23)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 IN.
(IERO19)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(IERO22)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(IERO23)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

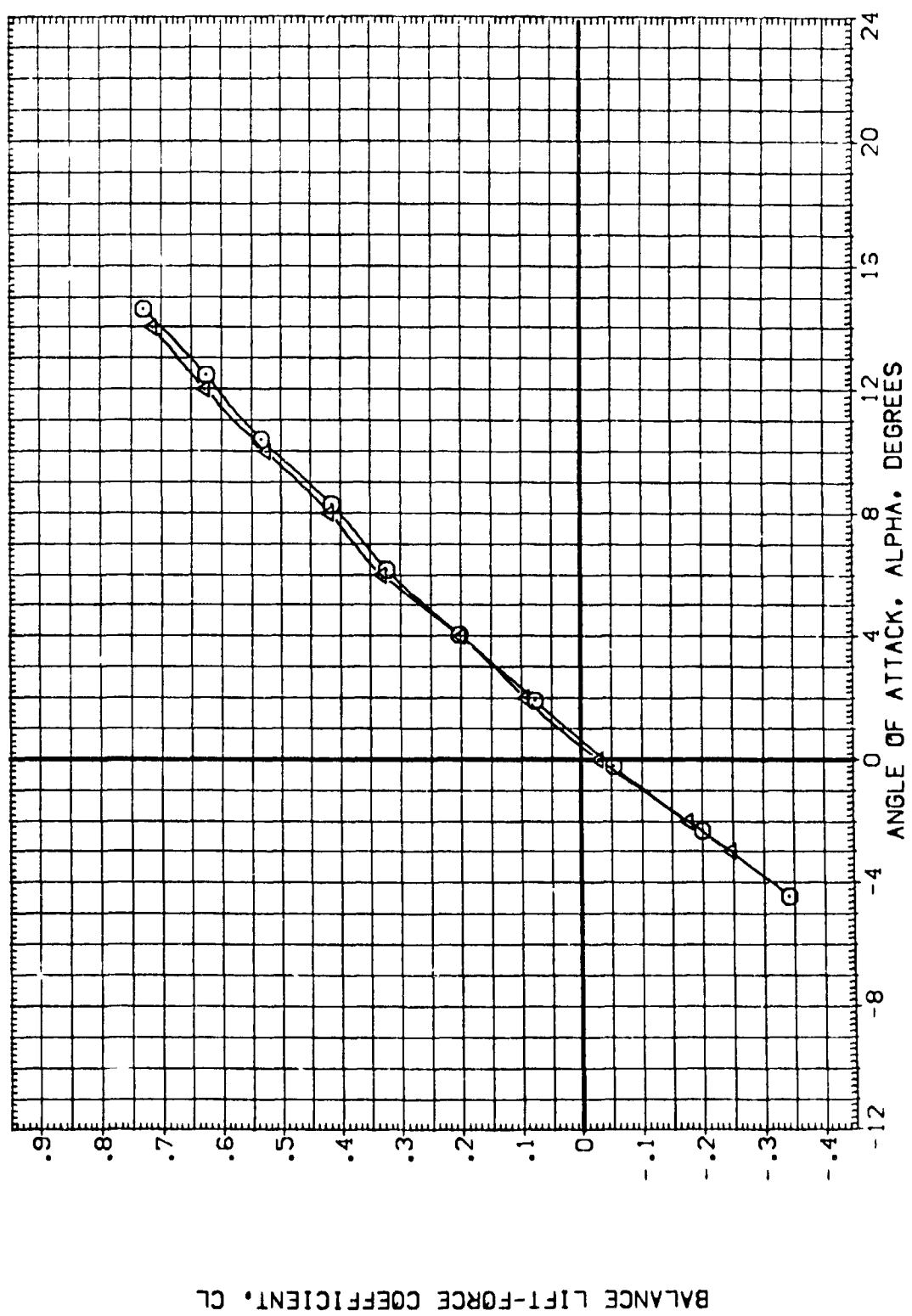


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = .95



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5836 FT.
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(IER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(IER022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(IER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

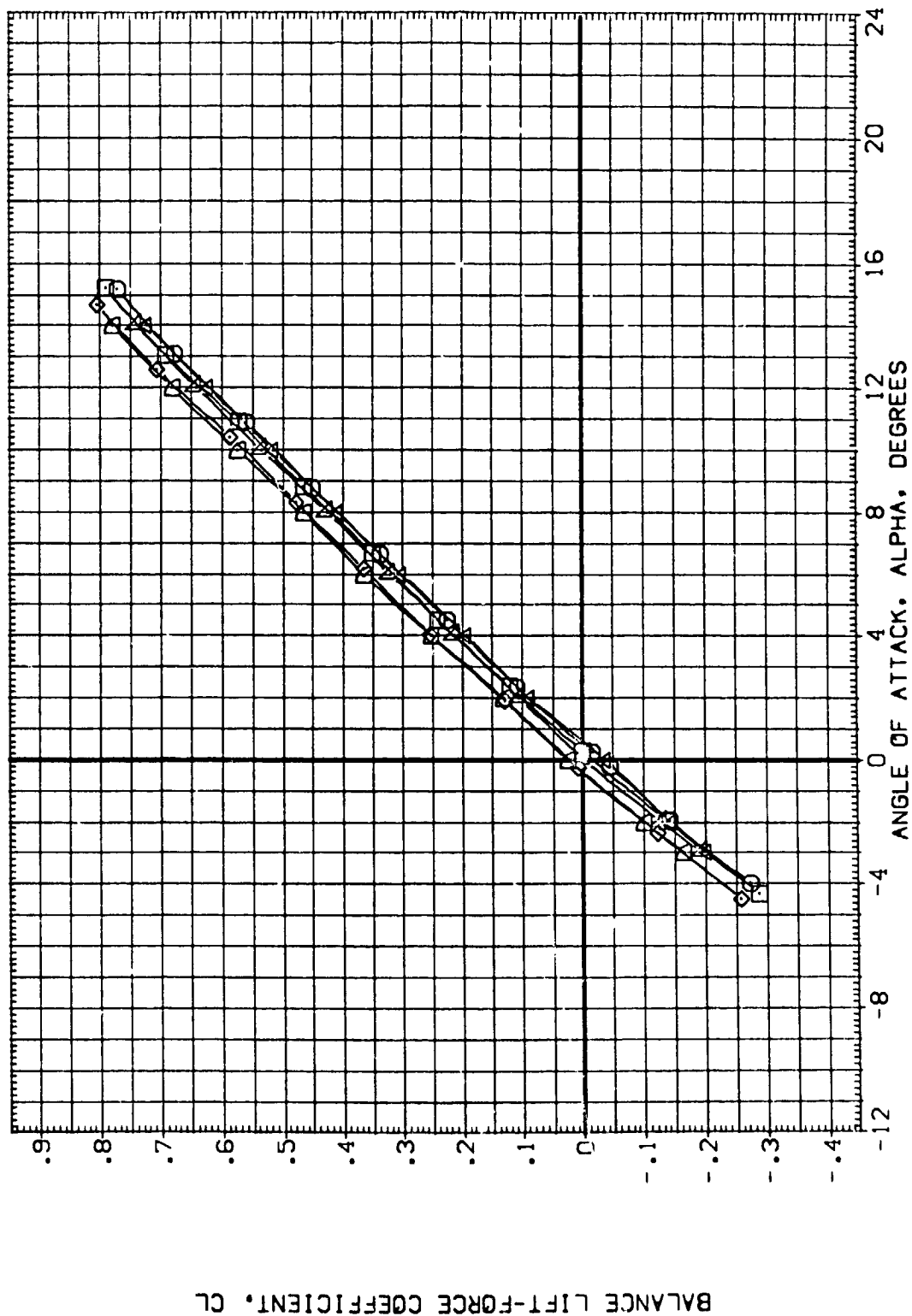


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER019}	ARC 66-709 OAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
{CER022}	ARC 66-709 OAS9 0111A-(N24)	.000	.000	.000	LREF .5836 FT.
{CER023}	ARC 66-709 OAS9 0111A-(N24)	.000	.000	16.300	BREF .1710 IN.
{CER019}	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP .6255 IN.
{CER022}	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
{CER023}	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP .3750 IN.
					SCALE .0150

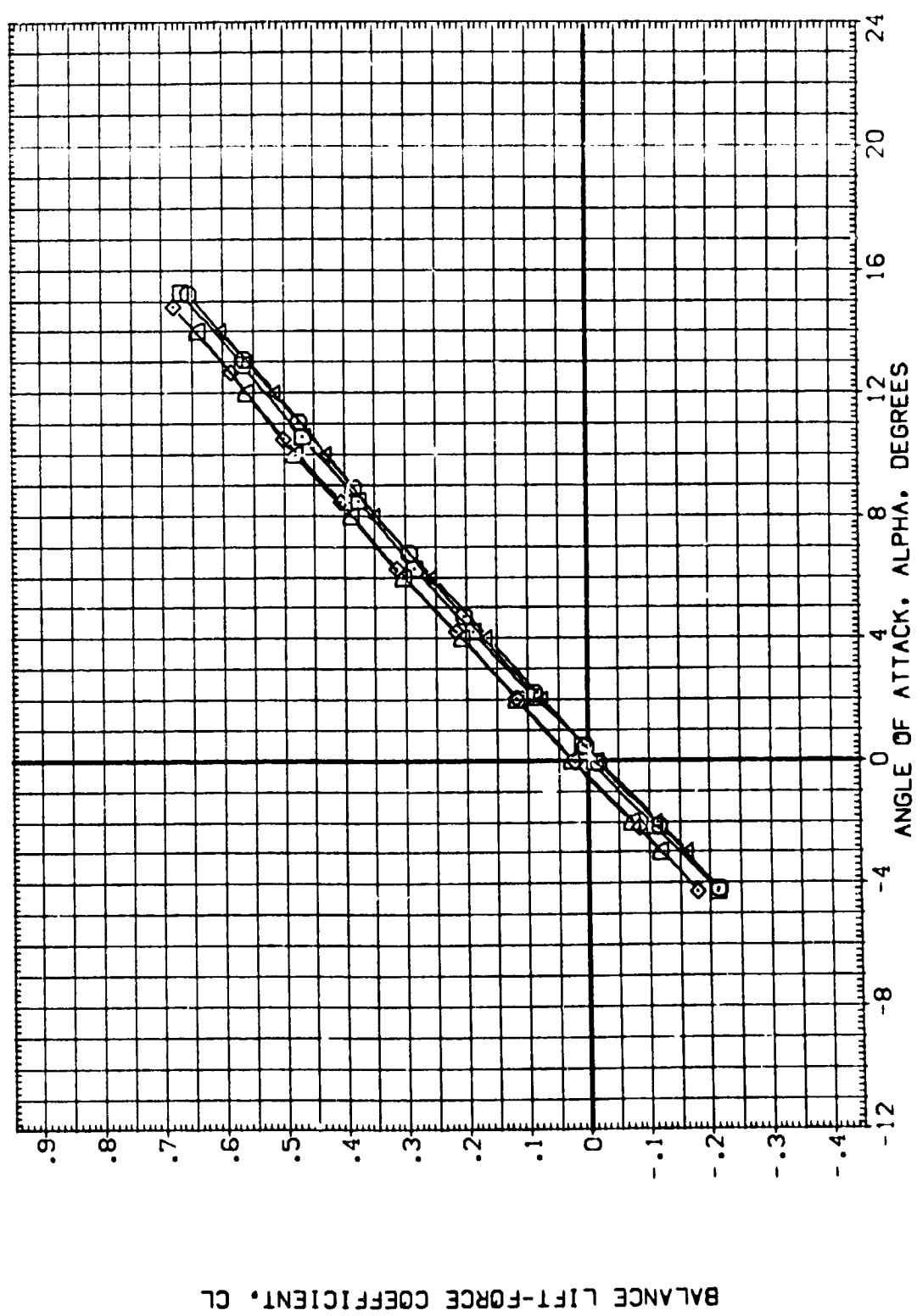


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(1ER019)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	-11.700	SREF .8053 SQ.FT.
(1ER022)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	.000	LREF .5935 FT.
(1ER023)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(1ER019)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMPP 12.6255 IN.
(1ER022)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMPP .0000 IN.
(1ER023)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMPP -.3750 IN.
					SCALE .0150

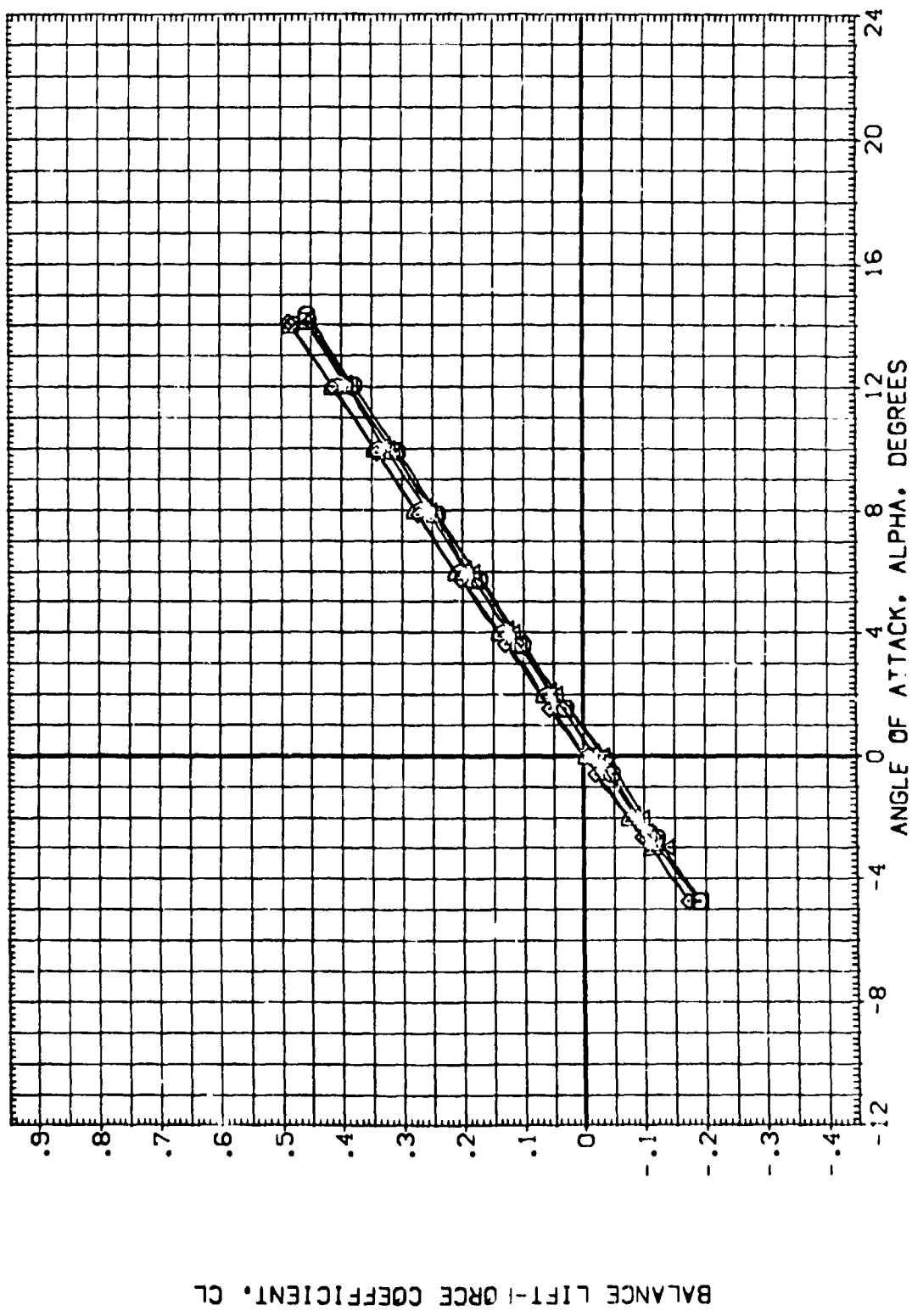


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(1)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50 FT.
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(TER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6755 IN.
(TER022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(TER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

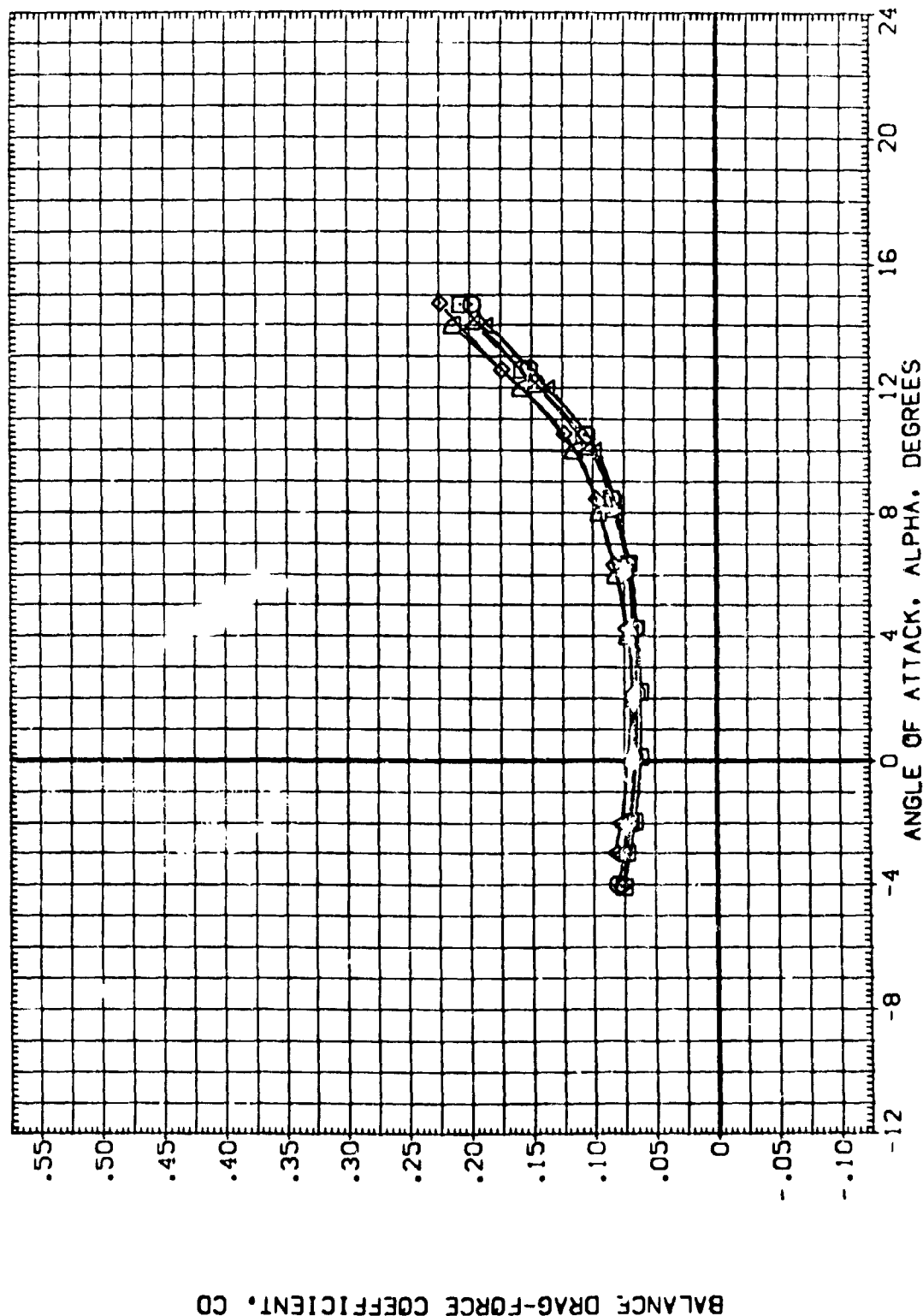


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(A)MAC+ = .60

DATA SET SYMBO.	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	DATA NOT AVAILABLE	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	ARC 66-709 QAS9 0A111A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 QAS9 0A111A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(CER019)	DATA NOT AVAILABLE	.000	.000	-11.700	XMRP 12.6255 IN.
(IER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(IER023)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

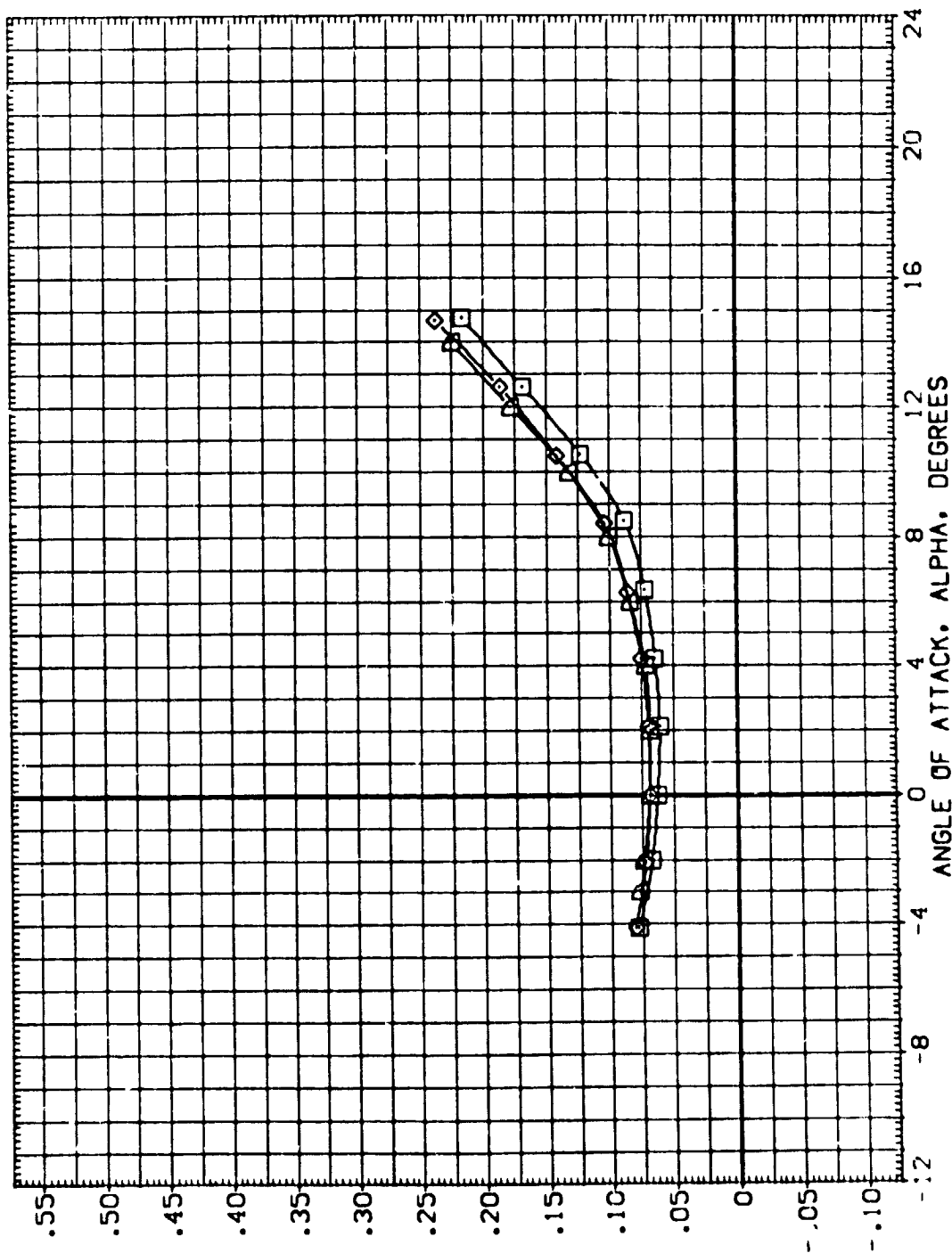


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CER019) ARC 66-709 0A59 0A11A-(N24)
 (CER022) ARC 66-709 0A59 0A11A-(N24)
 (CER023) ARC 66-709 0A59 0A11A-(N24)
 (IER019) ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)
 (IER022) DATA NOT AVAILABLE
 (IER023) ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 2.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

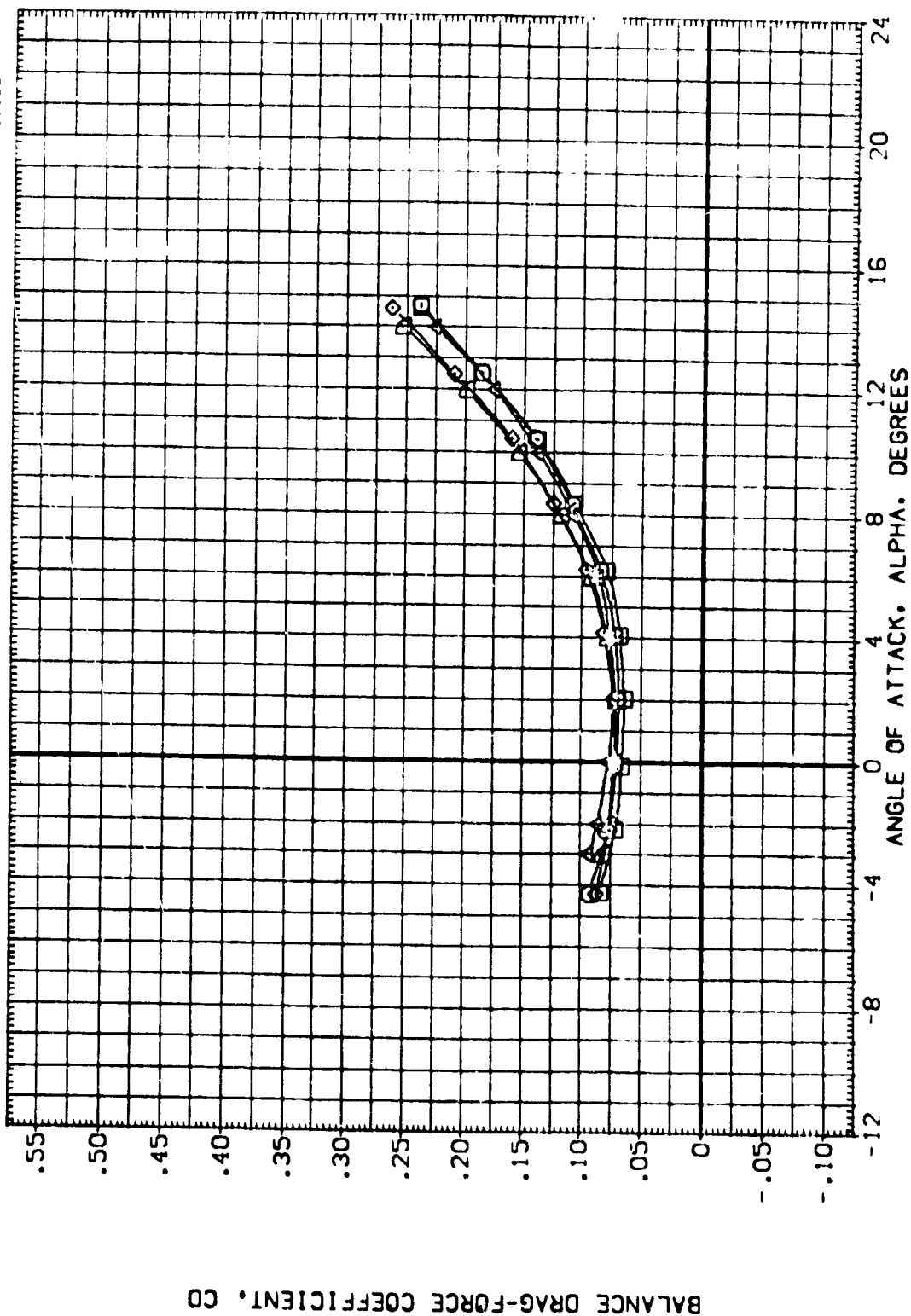


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 OAS9 O111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(CER023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 FT.
(CER019)	ARC 66-709 OAS9 O111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XREF 12.6755 IN.
(CER022)	DATA NOT AVAILABLE	.000	.000	.000	YREF .0000 IN.
(CER023)	DATA NOT AVAILABLE	.000	.000	16.300	ZREF -.3750 IN.
					SCALE .0150

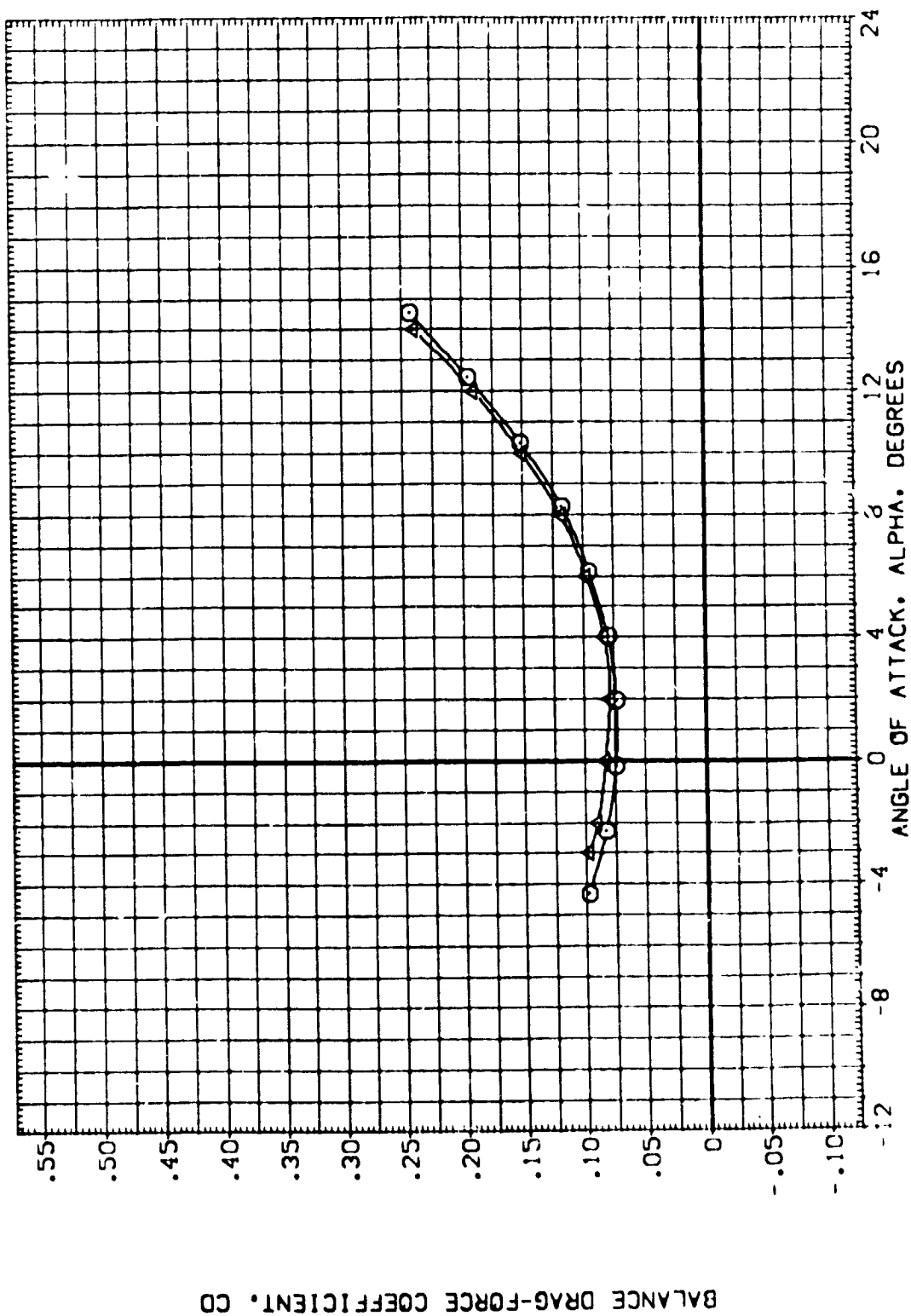


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MAG: .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(CER019)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XREF 12.6755 IN.
(CER022)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YREF .0000 IN.
(CER023)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZREF .3750 IN.
					SCALE 0.50

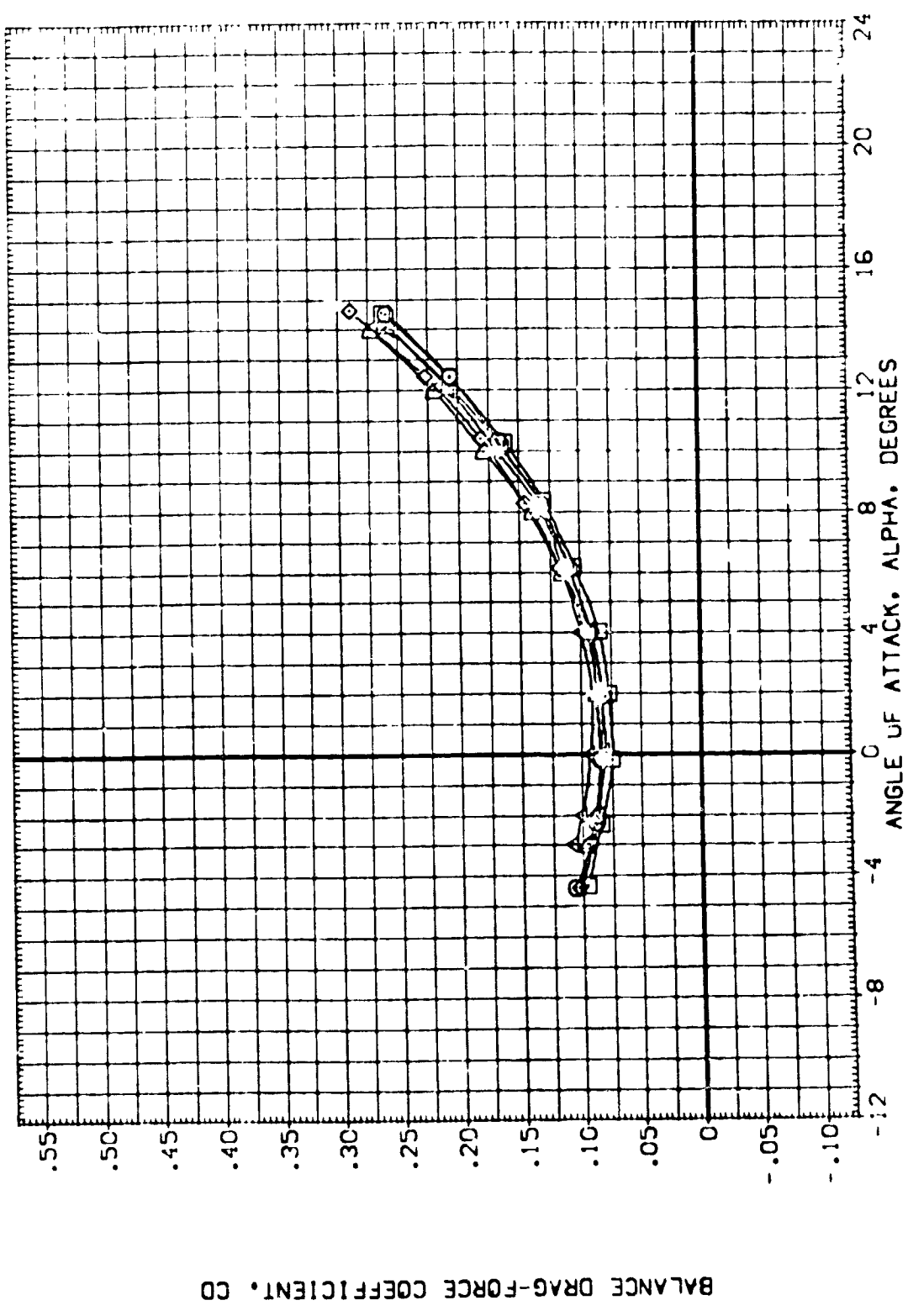


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(E)MAC = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 QAS9 Q111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(CER023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 FT.
(IER019)	ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
(IER022)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP .0000 IN.
(IER023)	DATA NOT AVAILABLE	.000	.000	16.300	SCALE .0150

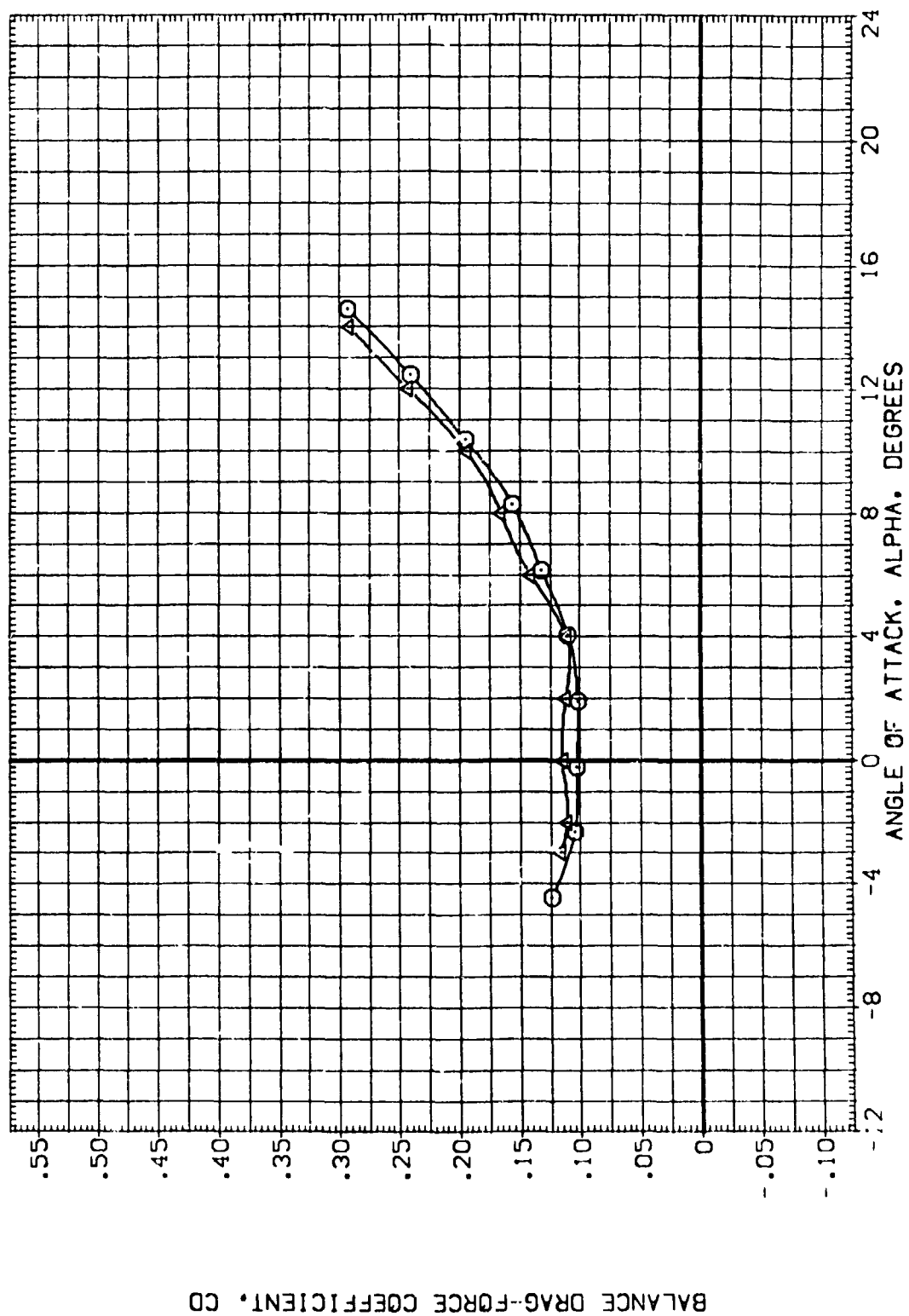


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(F)MAC = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(CER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(CER022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(CER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

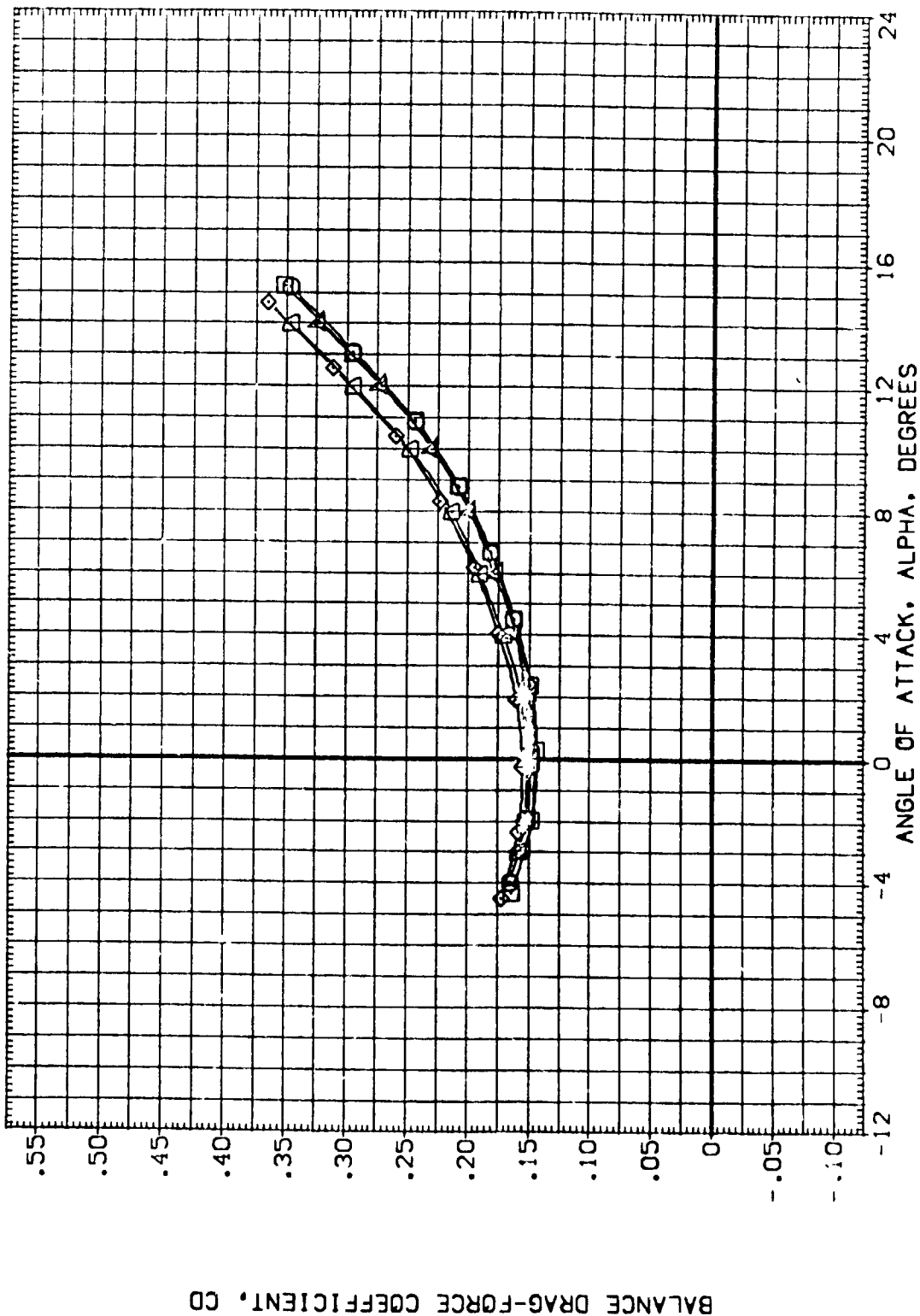


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(IFR019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(IFR022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(IFR023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

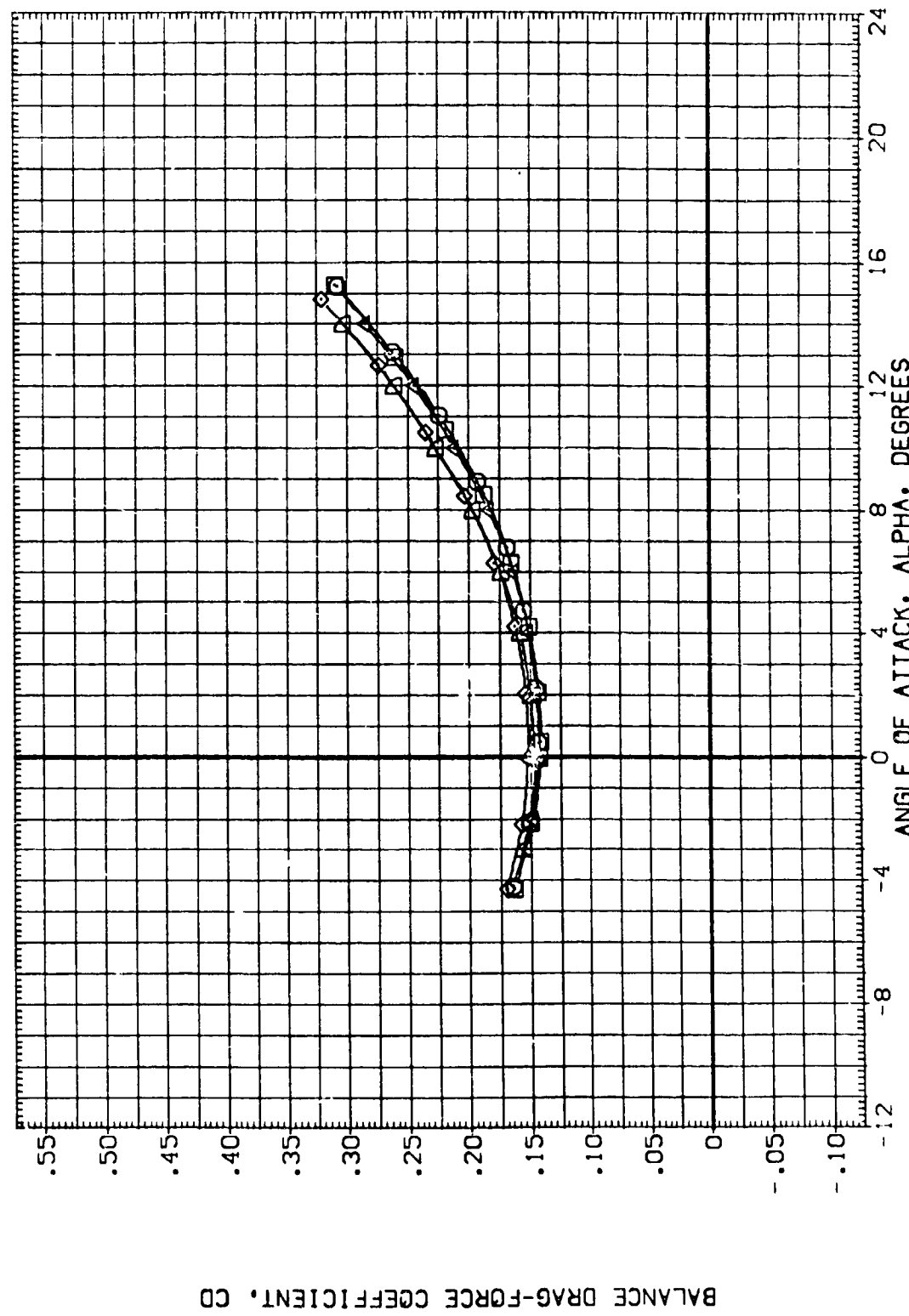


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(H)MAC = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER019)	ARC 66-709 DA59	011A-(N24)
(CER022)	ARC 66-709 DA59	011A-(N24)
(CER023)	ARC 66-709 DA59	011A-(N24)
(1ER019)	ARC 66-709 DA59	011A-N24 (ADJUSTED FOR TARES)
(1ER022)	ARC 66-709 DA59	011A-N24 (ADJUSTED FOR TARES)
(1ER023)	ARC 66-709 DA59	011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	.000	.000
.000	.000	16.300
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300

REFERENCE INFORMATION

SREF	.6053	50. FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

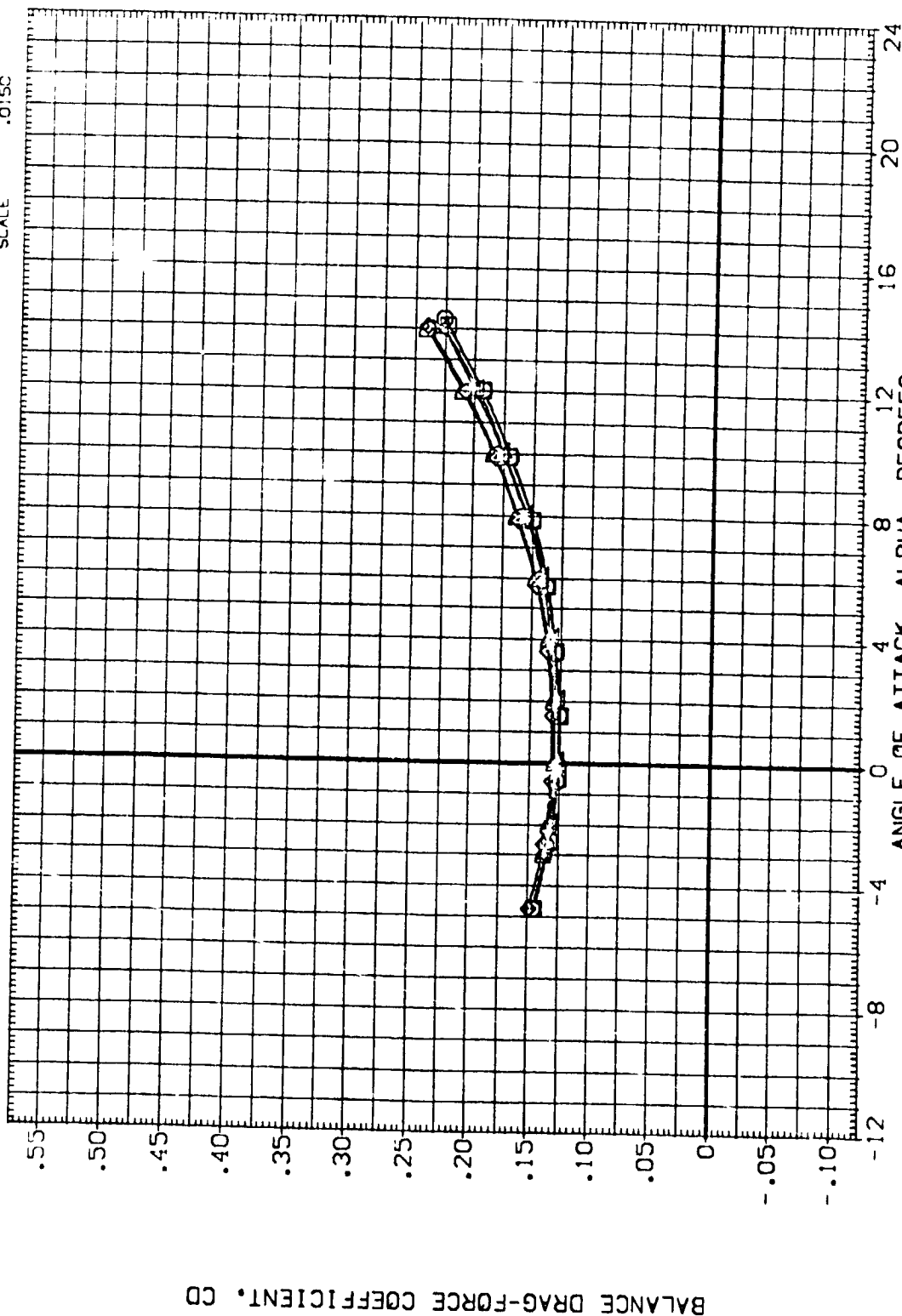


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(1)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(CER019)	ARC 66-709 0A59 0A11A-(N24)
(CER022)	ARC 66-709 0A59 0A11A-(N24)
(CER023)	ARC 66-709 0A59 0A11A-(N24)
(1ER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
(1ER022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)
(1ER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

BETA	ELEVON	BOFLAP
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300

REFERENCE INFORMATION

REFERENCE INFORMATION	SO. FT.
SREF	.6053
LREF	.5935
BREF	1.1710
XMRP	12.6255
YMRP	.0000
ZMRP	-.3750
SCALE	.0150

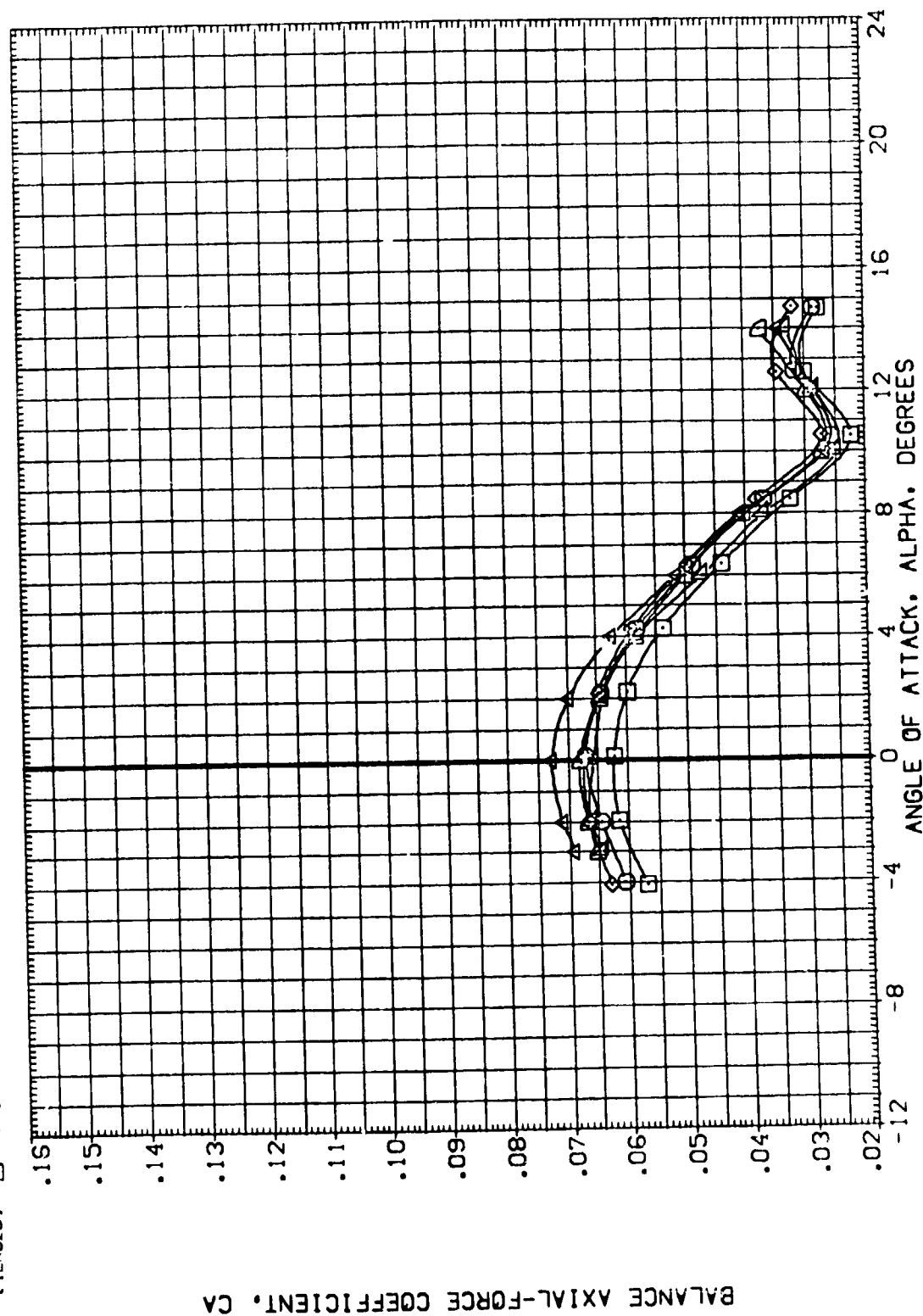


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER019) DATA NOT AVAILABLE

(CER022) ARC 66-709 0A59 0A11A-(N24)

(CER023) ARC 66-709 0A59 0A11A-(N24)

(J1R019) DATA NOT AVAILABLE

(J1R022) DATA NOT AVAILABLE

(J1R023) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDF LAP

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

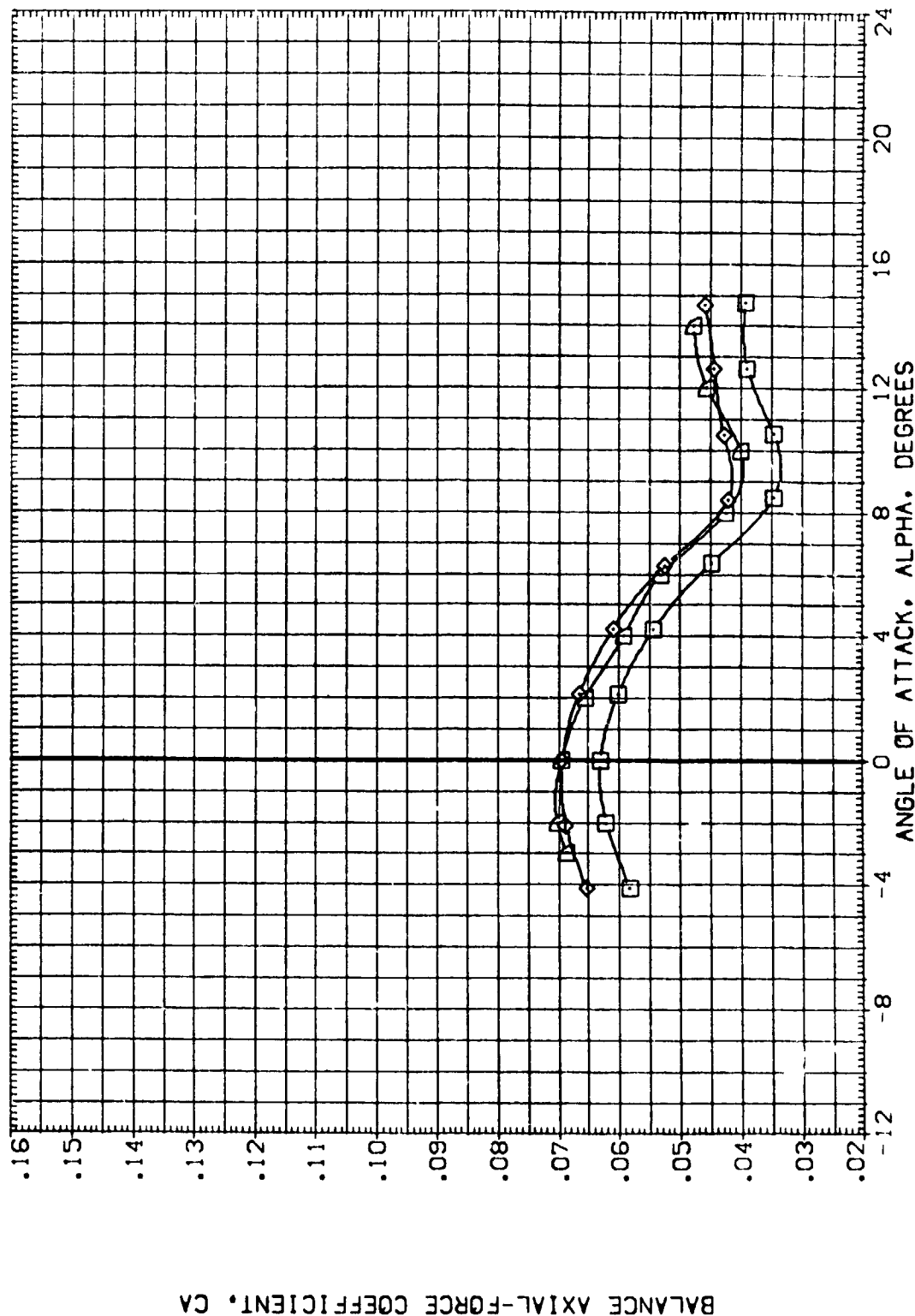


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER019) ARC 66-709 0A59 0A11A-(N24)

(CER022) ARC 66-709 0A59 0A11A-(N24)

(CER023) ARC 66-709 0A59 0A11A-(N24)

(CER019) ARC 66-709 0A59 0A11A-(N24)

(CER022) DATA NOT AVAILABLE

(CER023) ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDFLAP

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

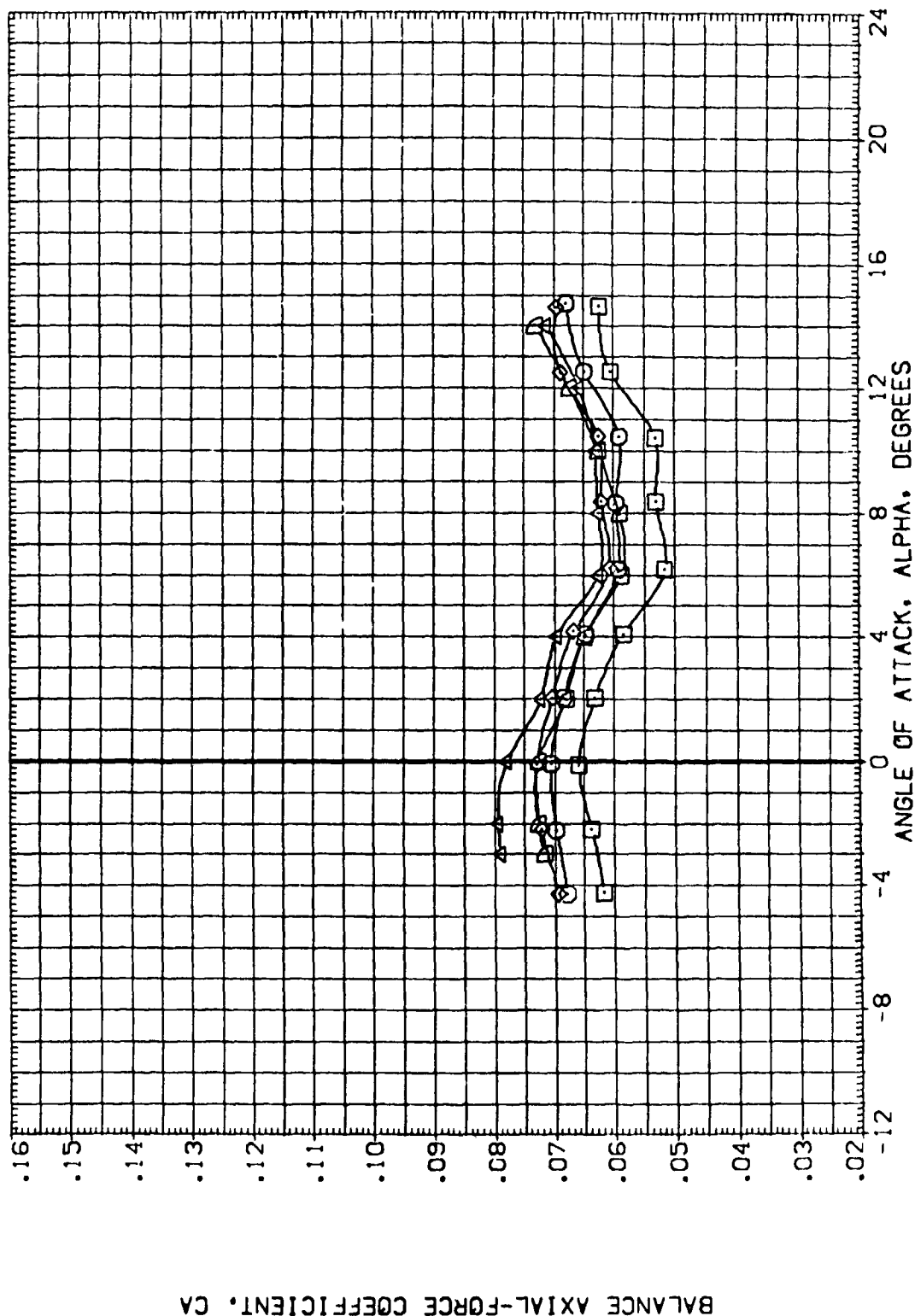


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(CJ)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	DATA NOT AVAILABLE	.000	.000	.000	.REF .5935 FT.
(CER023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 FT.
(IER019)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(IER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(IER023)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

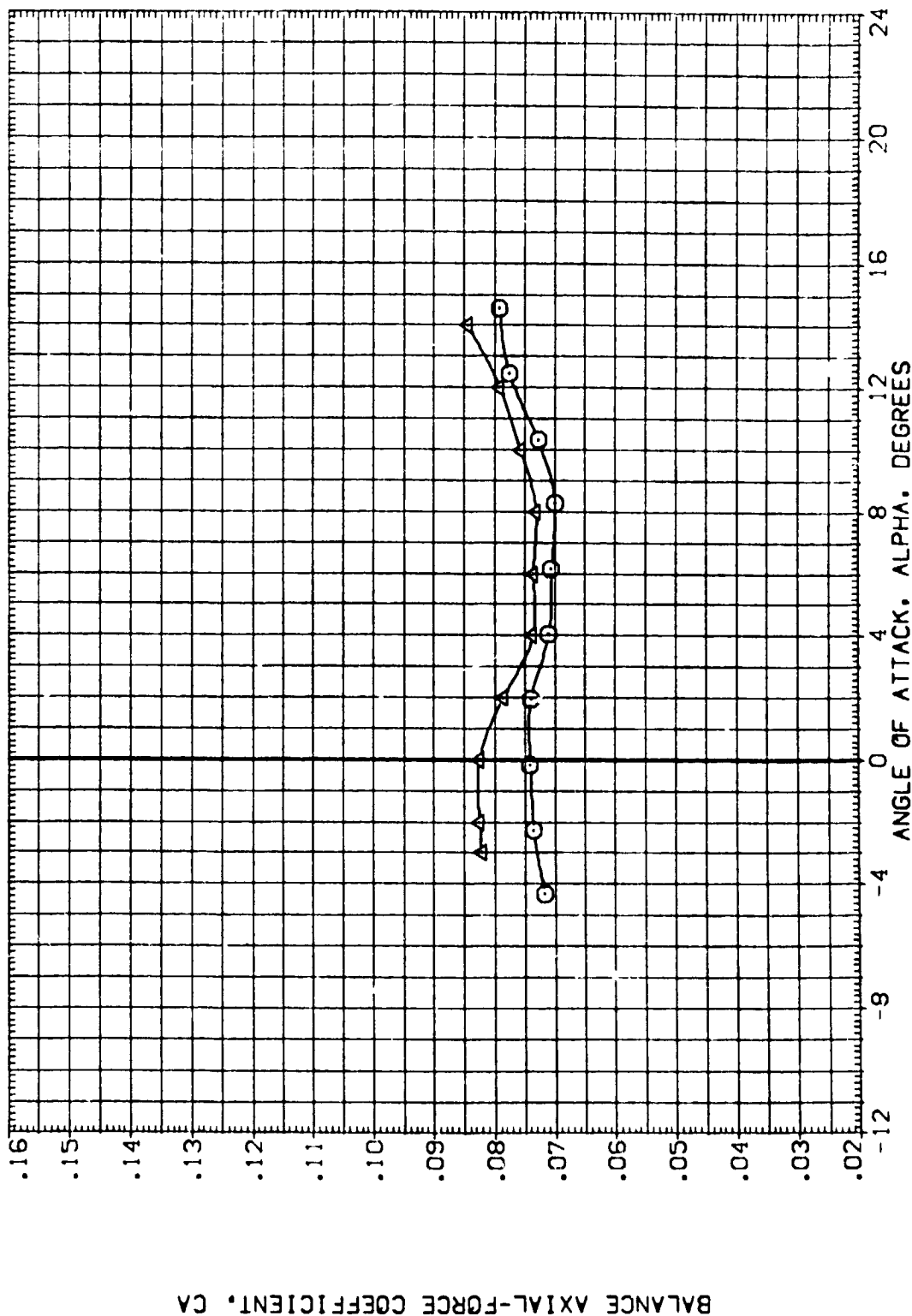


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(O) MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF-LAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 OAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	ARC 66-709 OAS9 0111A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 OAS9 0111A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(1ER019)	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(1ER022)	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(1ER023)	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

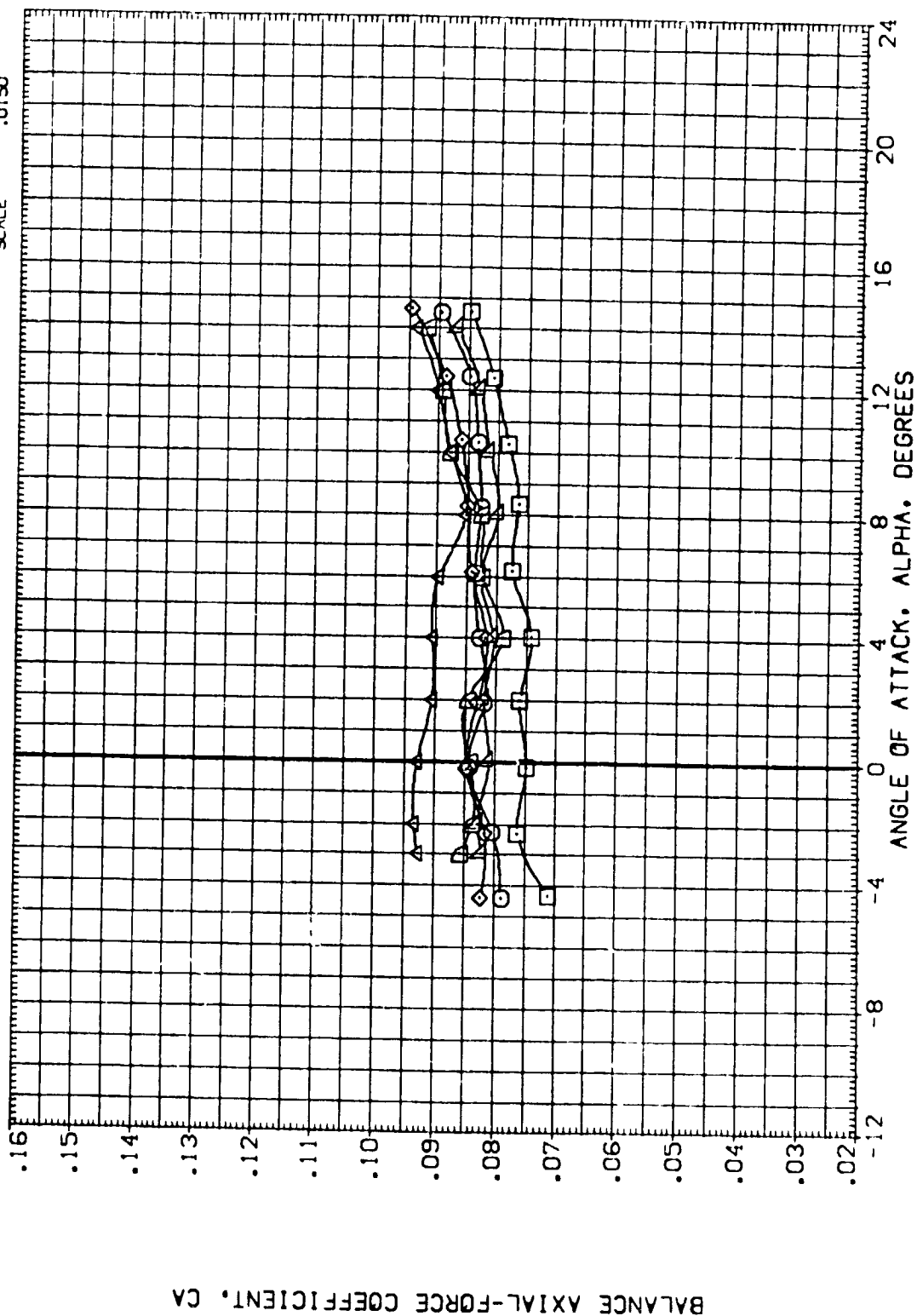


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(CJMAC) = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER019) ARC 66-709 0459 0A11A-(N24)

(CER022) DATA NOT AVAILABLE

(CER023) DATA NOT AVAILABLE

(IER019) ARC 66-709 0459 011A-N24 (ADJUSTED FOR TARES)

(IER022) DATA NOT AVAILABLE

(IER023) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5835 FT.

BREF 1.1710 FT.

XMRP 12.6235 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

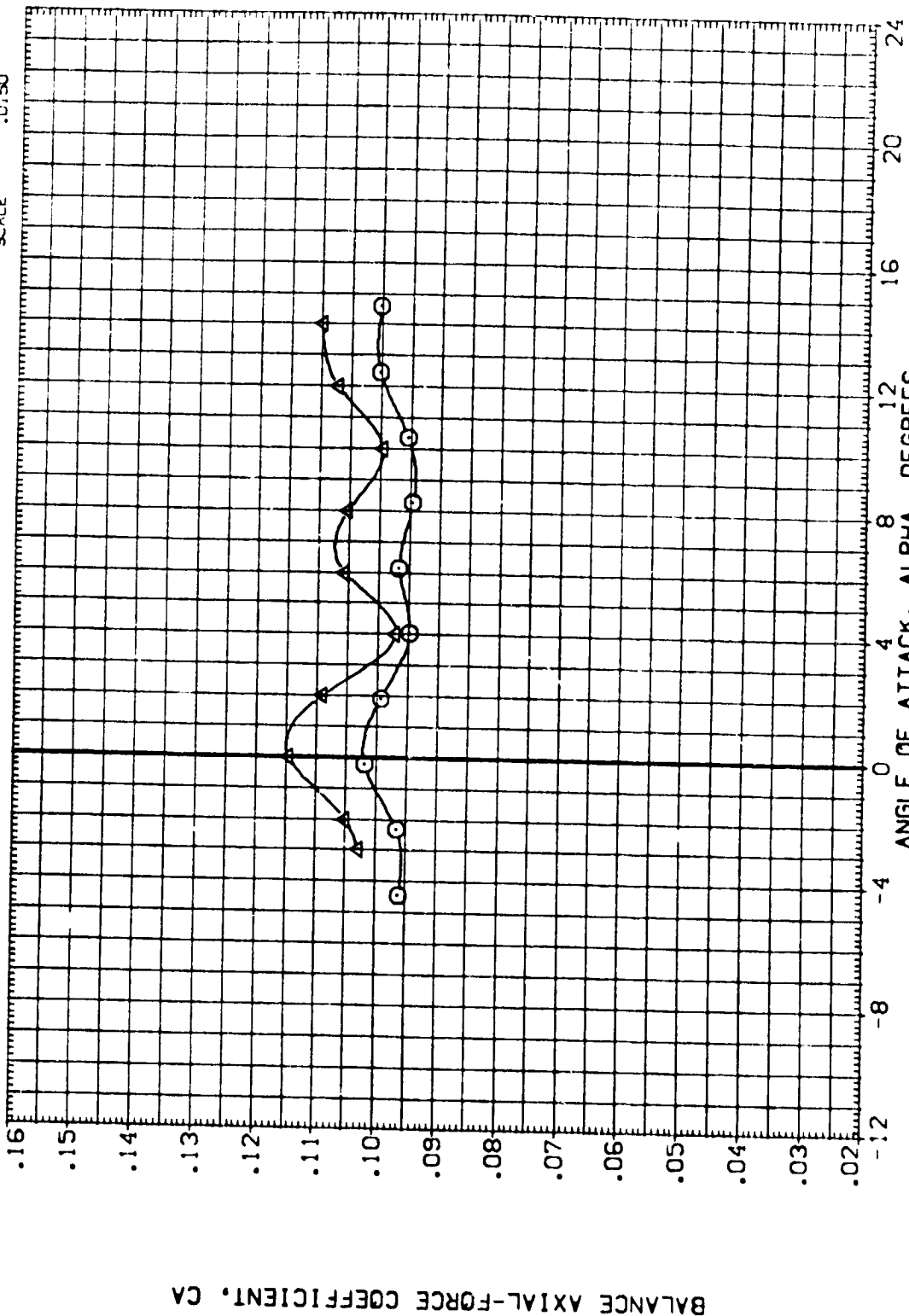


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BD-LAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 Q159 D111A-(N24)	.000	.000	-11.700	SREF .8053 SQ.FT.
(CERO22)	ARC 66-709 Q159 D111A-(N24)	.000	.000	.000	LREF .5935 FT.
(CERO23)	ARC 66-709 Q159 D111A-(N24)	.000	.000	.000	BREF 1.1710 FT.
(CERO19)	ARC 66-709 Q159 D111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(CERO22)	ARC 66-709 Q159 D111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0003 IN.
(CERO23)	ARC 66-709 Q159 D111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

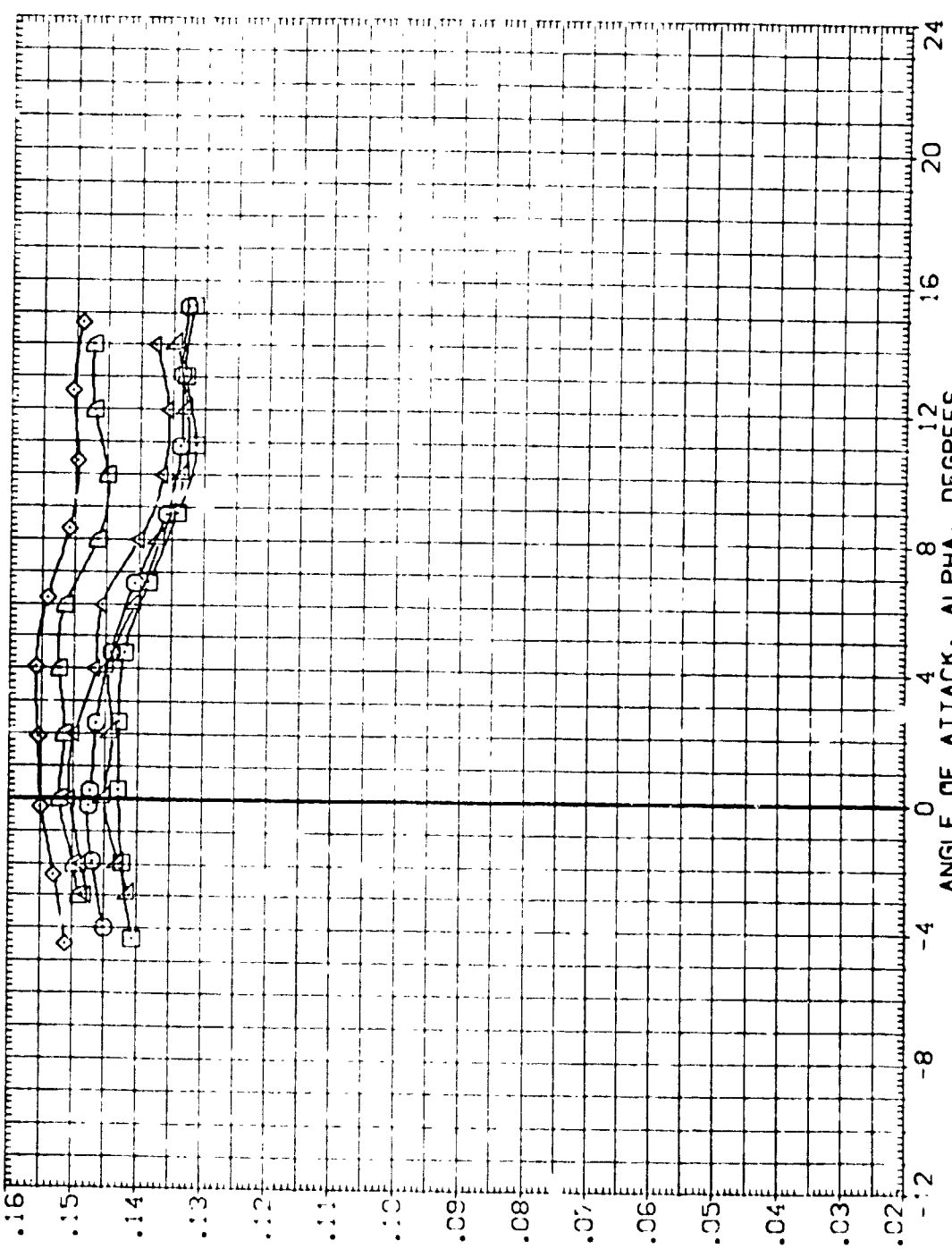


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-708 DA59 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	ARC 66-708 DA59 0111A-(N24)	.000	.000	-11.700	LREF .5535 FT.
(CER023)	ARC 66-708 DA59 0111A-(N24)	.000	.000	-16.300	BREF 1.1710 FT.
(IER019)	ARC 66-708 DA59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(IER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(IER023)	ARC 66-708 DA59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

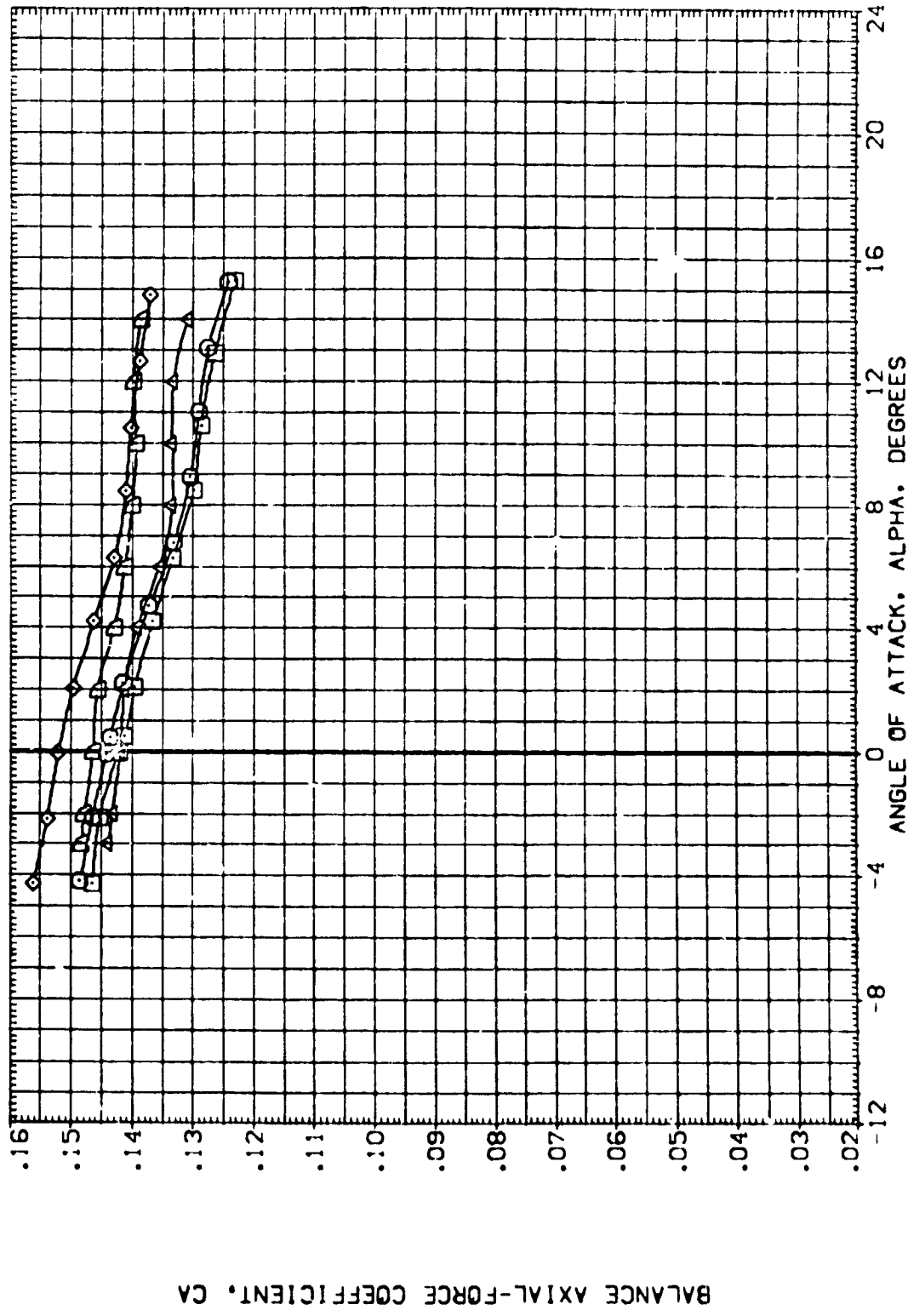


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES
 (M)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(1E0019)	ARC 66-709 DASS	0111A-N24
(1E0022)	ARC 66-709 DASS	0111A-N24
(1E0023)	ARC 66-709 DASS	0111A-N24
(1E0019)	ARC 66-709 DASS	0111A-N24 (ADJUSTED FOR TARES)
(1E0022)	ARC 66-709 DASS	0111A-N24 (ADJUSTED FOR TARES)
(1E0023)	ARC 66-709 DASS	0111A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDFLAP

.000	.000	-11.700
.000	.000	.000
.000	.000	16.300
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300

REFERENCE INFORMATION

SREF	.6053	SC.FT.
LREF	.5935	FT.
BREF	1.170	IN.
XREF	12.6255	IN.
YREF	.0000	IN.
ZREF	-.3750	IN.
SCALE	.0:50	

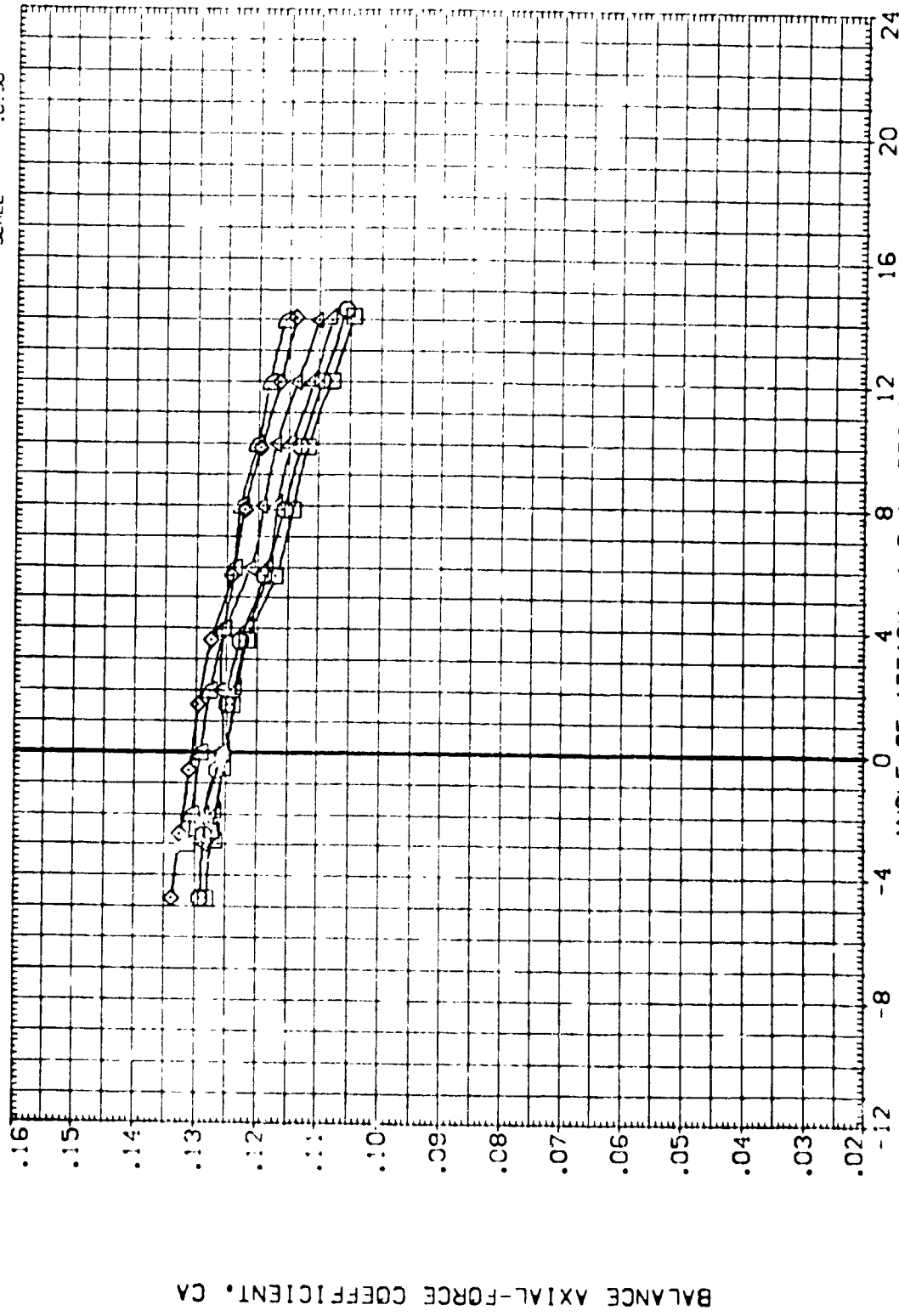


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(1)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(CERO19)	ARC 65-709 OAS9 O111A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(CERO22)	ARC 65-709 OAS9 O111A-(N24)	.000	.000	.000	LREF .5935 FT.
(CERO23)	ARC 65-709 OAS9 O111A-(N24)	.000	.000	16.300	BREF 1.1710
(CERO19)	ARC 65-709 OAS9 O111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(CERO22)	ARC 65-709 OAS9 O111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(CERO23)	ARC 65-709 OAS9 O111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE C:50

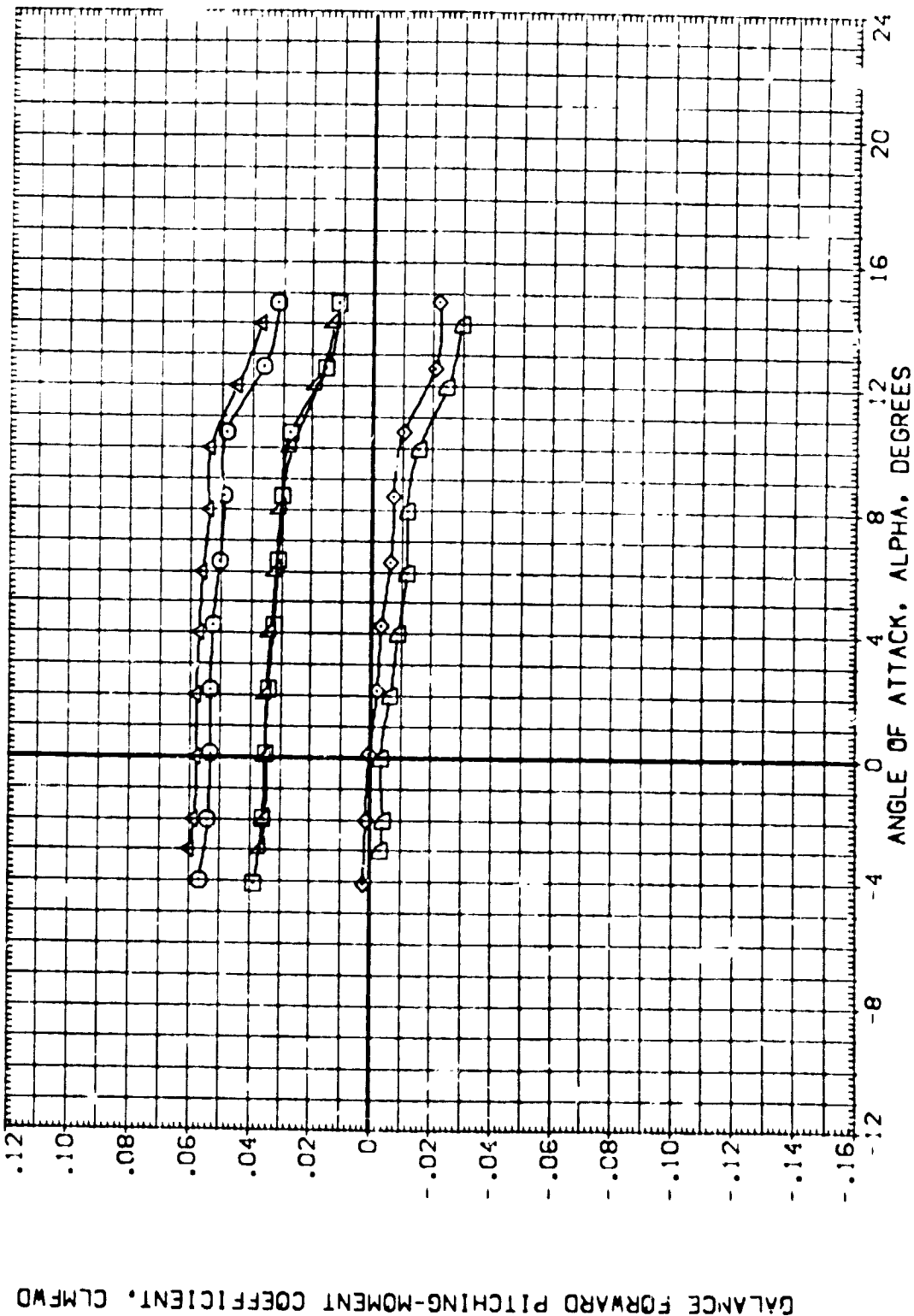


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES
(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	DATA NOT AVAILABLE	.000	.000	-11.700	SREF .6053 SO.FT.
(CER022)	ARC 66-709 C459 D111A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 C459 D111A-(N24)	.000	.000	-11.700	BREF 1.1710 IN.
(1ER019)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .6255 IN.
(1ER022)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP .0000 IN.
(1ER023)	ARC 66-709 C459 D111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	SCALE .0150

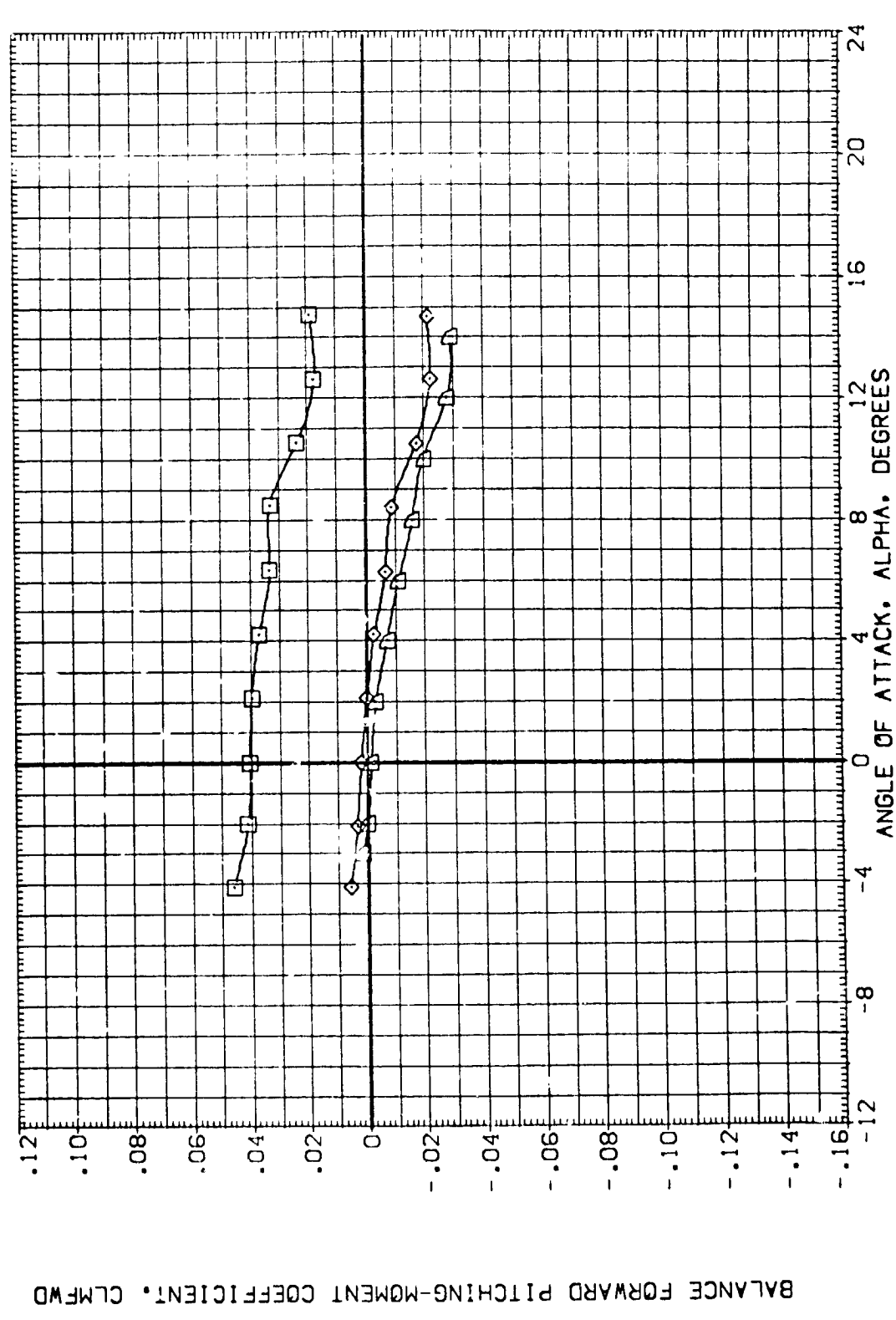


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES
(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 0A59 0111A-(N24)	.000	.000	-11.700	SREF .5053 SQ.FT.
(CERO22)	ARC 66-709 0A59 0111A-(N24)	.000	.000	.000	LREF .5935 FT.
(CERO23)	ARC 66-709 0A59 0111A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(CERO19)	ARC 66-709 0A59 0111A-(N24)	.000	.000	-11.700	XMRP 12.6255 IN.
(CERO22)	ARC 66-709 0A59 0111A-(N24)	.000	.000	.000	YMRP .0000 IN.
(CERO23)	ARC 66-709 0A59 0111A-(N24)	.000	.000	16.300	ZMRP -.3750 IN.
	DATA NOT AVAILABLE				SCALE .0150

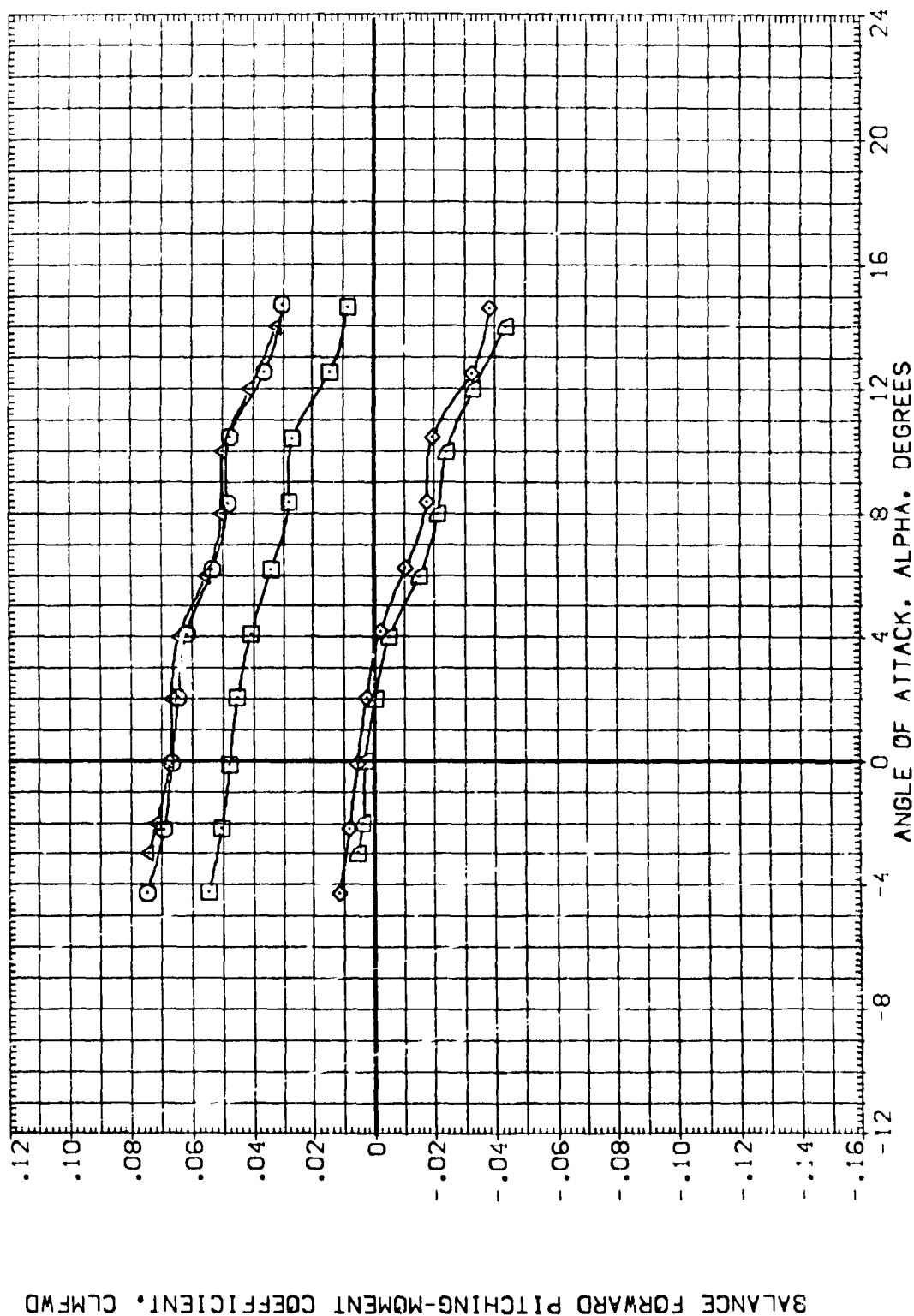


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVATION	BOF LAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF -6053 SQ.FT.
(CERO22)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LBREF -5835 FT.
(CERO23)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	BRFE 1.1713 FT.
(LEPO19)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP 12.6235 IN.
(LEPO22)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP .0000 IN.
(LEPO23)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	SCALE -3750 IN.

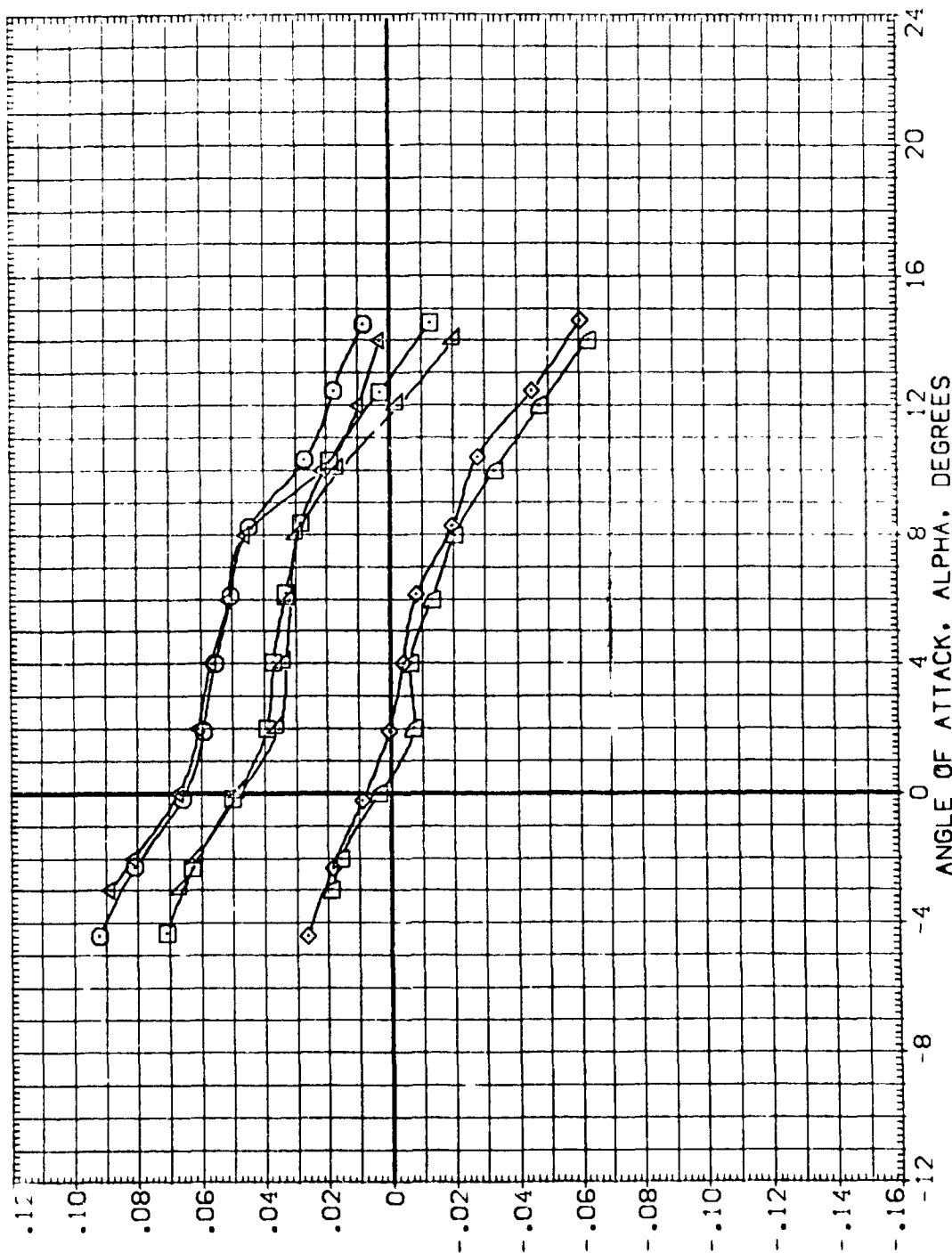


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

CEJMAC 856



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVATION	BOFLAP	REFERENCE INFORMATION
(CFR019)	ARC 66-709 OAS9 0111A-(N24)	.000	.000	-11.700	SPY F .6053 50.FT.
(CFR022)	DATA NOT AVAILABLE	.000	.000	.000	LRF F .5935 FT.
(CFR023)	DATA NOT AVAILABLE	.000	.000	16.300	BR F 1.171C IN.
(CFR019)	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6755 IN.
(CFR022)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
(CFR023)	DATA NOT AVAILABLE	.000	.000	16.300	SCALE .0150

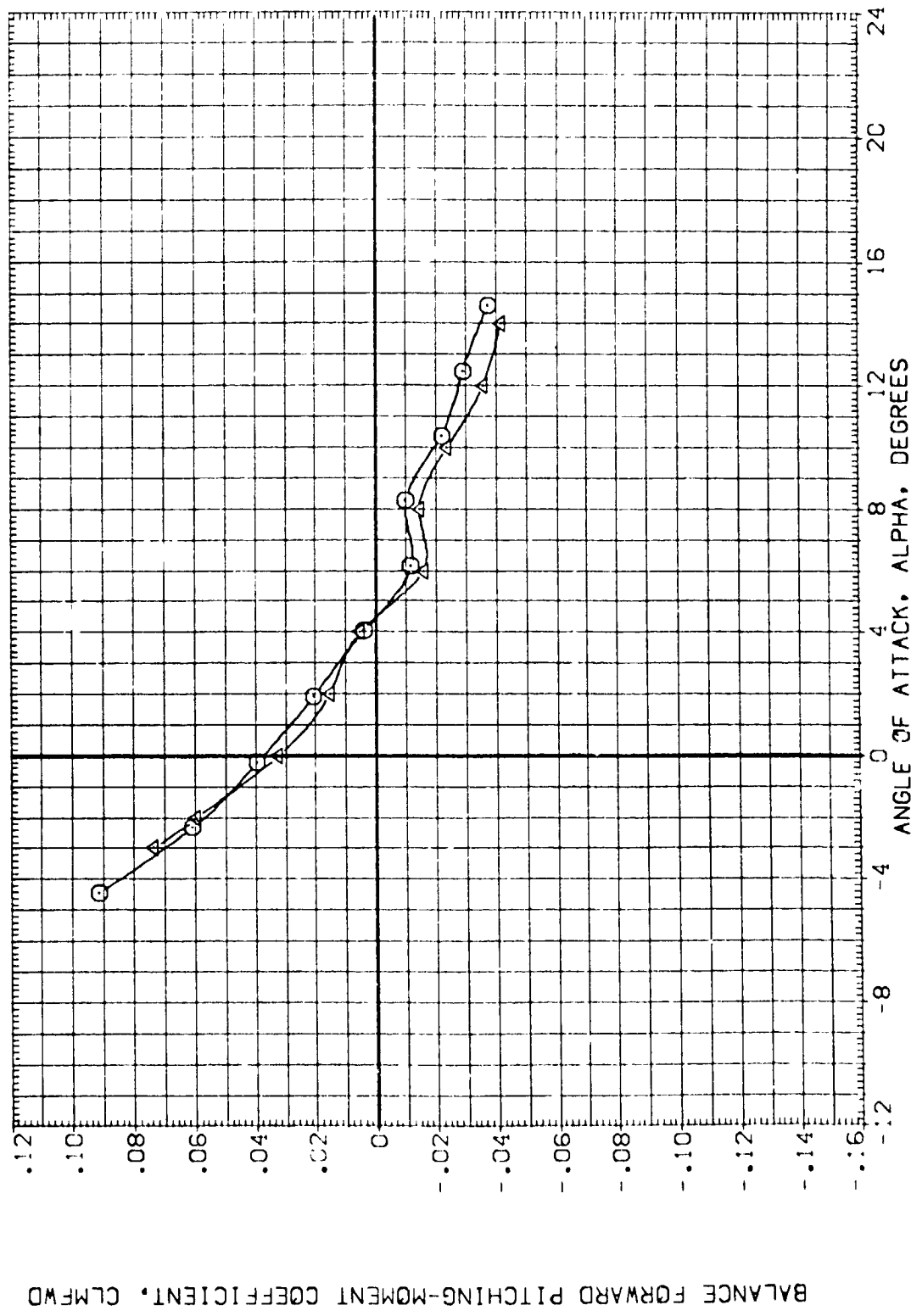


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOX LAP	REFERENCE INFORMATION
(C1R019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6C53 SQ.FT.
(C1R022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5936 FT.
(C1R023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	BREF 1.1710 IN.
(C1R019)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XREF 12.6255 IN.
(C1R022)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YREF .0000 IN.
(C1R023)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZREF -.3730 IN.
					SCALE .0150

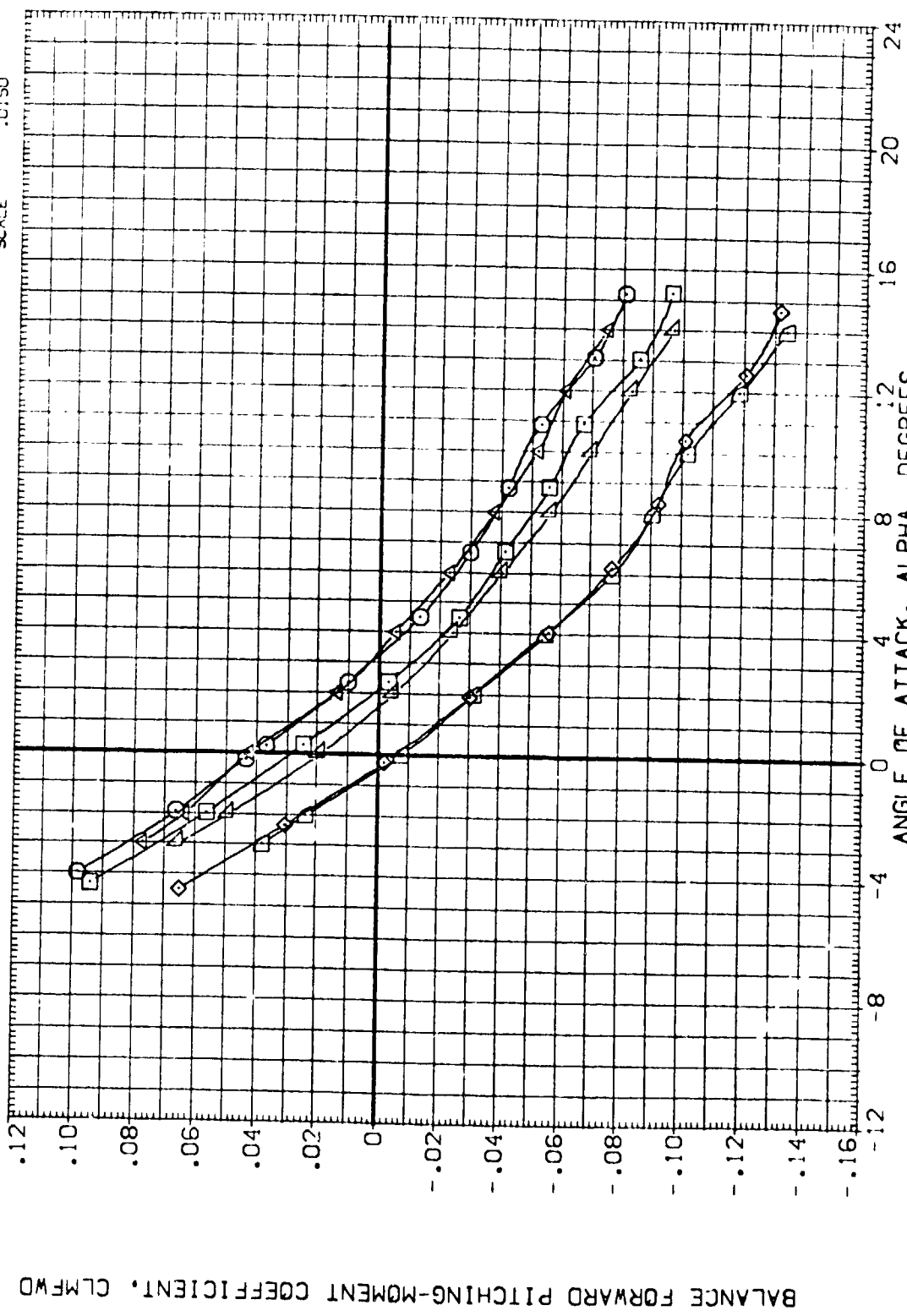


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(CERO19) ARC 66-709 QAS9 0111A-(N24) .000 .000 -11.700 SREF 6053 50.FT.

(CERO22) ARC 66-709 QAS9 0111A-(N24) .000 .000 .000 LREF 5835 FT.

(CERO23) ARC 66-709 QAS9 0111A-(N24) .000 .000 16.300 BREF 1.1710 FT.

(CERO19) ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES) .000 .000 -11.700 XMRP 12.6255 IN.

(CERO22) DATA NOT AVAILABLE .000 .000 .000 YMRP .0000 IN.

(CERO23) ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES) .000 .000 16.300 ZMRP -.3750 IN.

SCALE .0150

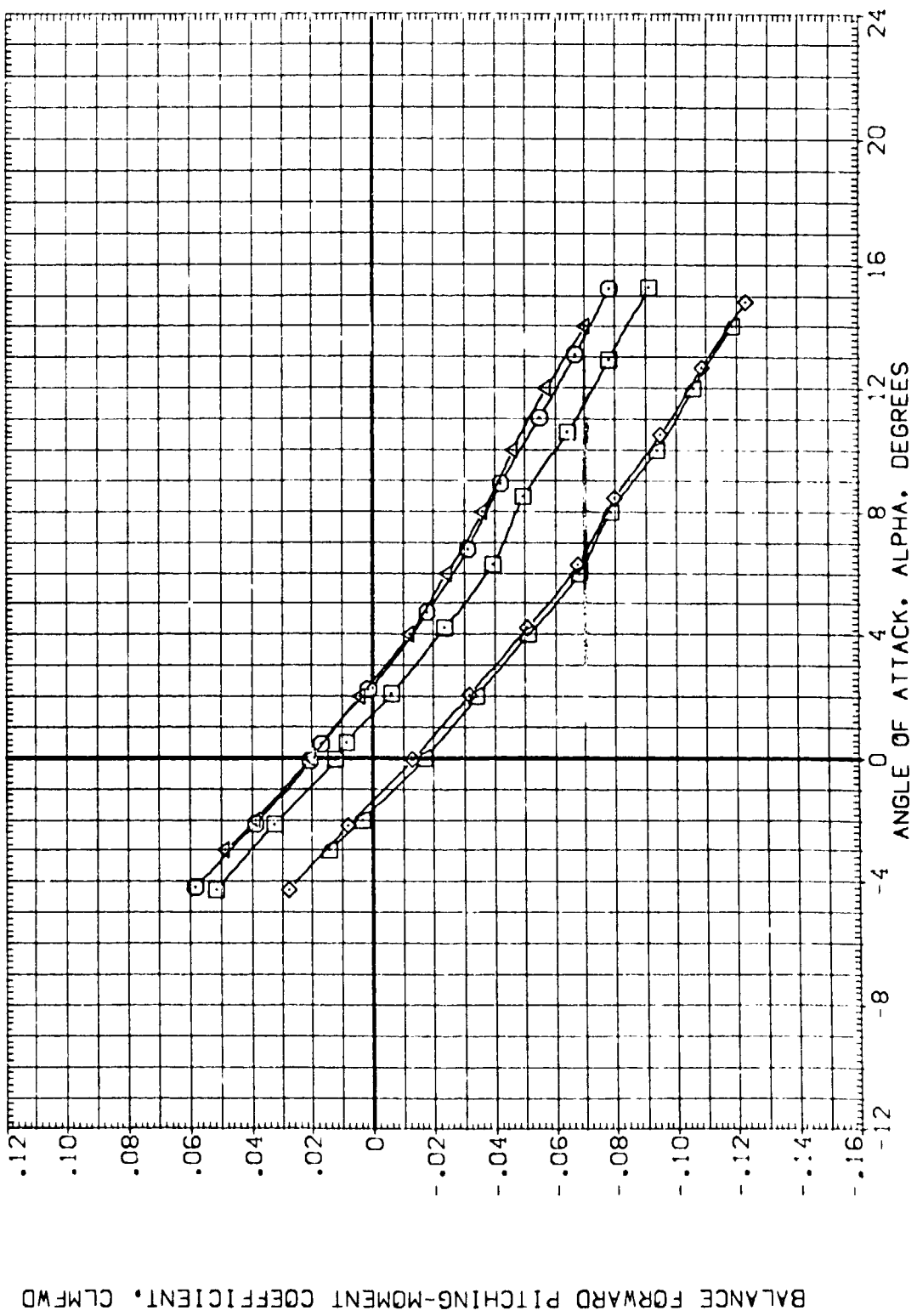


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

CHUMACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CER019) ARC 66-709 0A59 0A11A-(N24)
 (CER022) ARC 66-709 0A59 0A11A-(N24)
 (CER023) ARC 66-709 0A59 0A11A-(N24)
 (CER019) ARC 66-709 0A59 0A11A-(N24)
 (CER022) ARC 66-709 0A59 0A11A-(N24)
 (CER023) ARC 66-709 0A59 0A11A-(N24)

(ADJUSTED FOR TARES)
 (ADJUSTED FOR TARES)
 (ADJUSTED FOR TARES)

BETA ELEVON BOX LAP
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BRFF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .000 IN.
 ZMRP -.3750 IN.
 SCALE 0.50

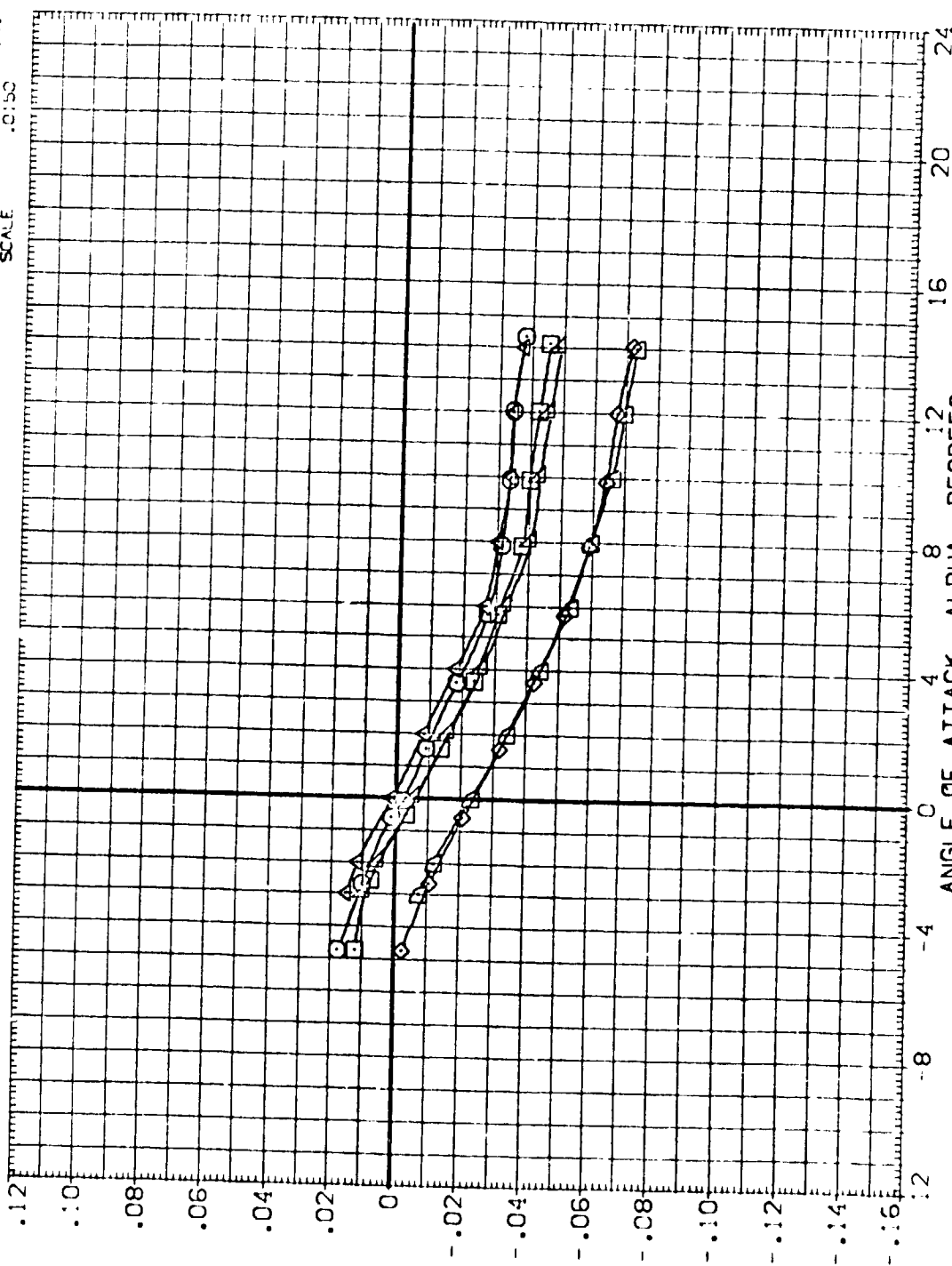


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

CLMFD - 2.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOF LAP	REFERENCE INFORMATION
(1) RC(3)	ARC 66-709	DA59 O111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(2) RC(3)	ARC 66-709	DA59 O111A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(3) RC(3)	ARC 66-709	DA59 O111A-(N24)	.000	.000	-11.700	BREF 1.1710 FT.
(4) RC(3)	ARC 66-709	DA59 O111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMOP 12.6255 IN.
(5) RC(3)	ARC 66-709	DA59 O111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMOP .0000 IN.
(6) RC(3)	ARC 66-709	DA59 O111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	ZMOP -.3750 IN.
(7) RC(3)	ARC 66-709	DA59 O111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	SCALE .0150

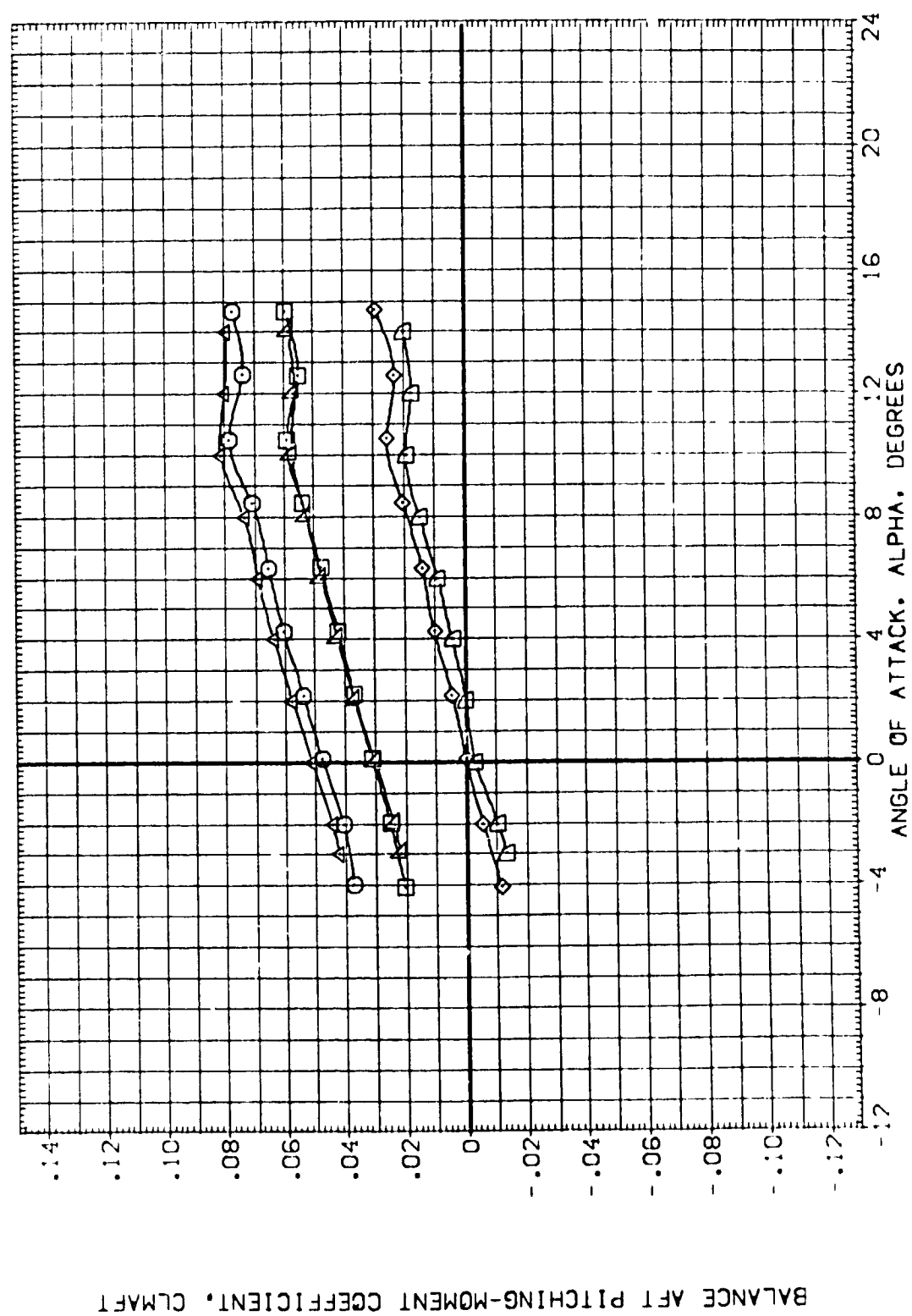


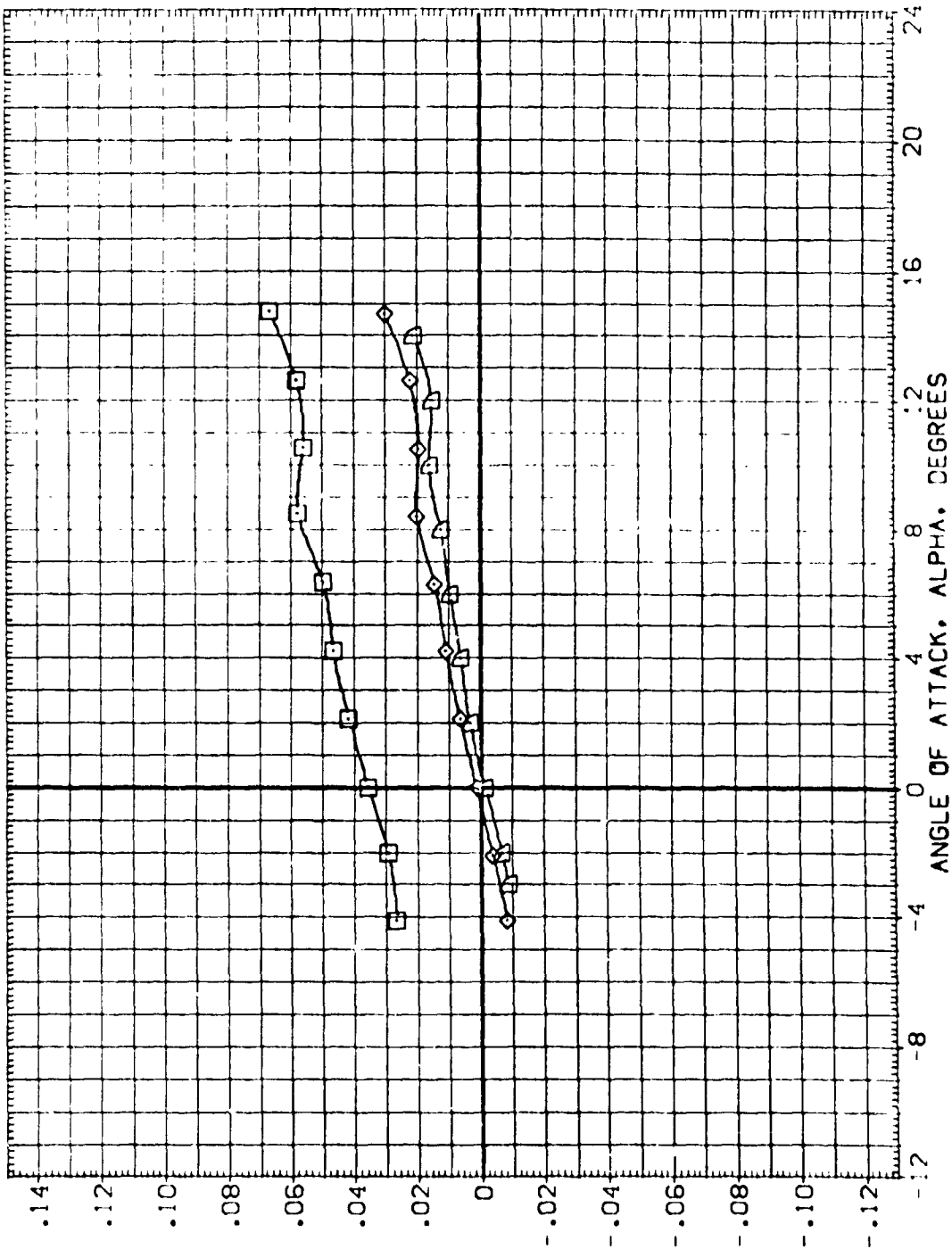
FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(A) MAC = .60

DATA SET SYMBOL:  CONFIGURATION DESCRIPTION
 (C1R019) DATA NOT AVAILABLE
 (C1R022) ARC 66-709 QAS9 0111A-(N24)
 (C1R023) ARC 66-709 QAS9 0111A-(N24)
 (C1R019) DATA NOT AVAILABLE
 (C1R022) DATA NOT AVAILABLE
 (C1R023) ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300
 .000 .000 .000
 .000 .000 .000
 .000 .000 16.300

REFERENCE INFORMATION
 SREF .50.3 50.FT.
 LREF .593 59.3 FT.
 SREF 1.1711 117.11 IN.
 XMRP 12.6255 1262.55 IN.
 YMRP .0000 0 IN.
 ZMRP -3.7500 -375 IN.
 SCALE .0150



BALANCE AFT PITCHING-MOMENT COEFFICIENT, CM AFT

FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(B)MAC 70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(C)R019)	ARC 66-709 D459 D11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(C)R022)	ARC 66-709 D459 D11A-(N24)	.000	.000	.000	LREF .5935 FT.
(C)R023)	ARC 66-709 D459 D11A-(N24)	.000	.000	.000	BREF 1.1710 FT.
(C)R019)	ARC 66-709 D459 D11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6755 IN.
(C)R022)	ARC 66-709 D459 D11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(C)R023)	ARC 66-709 D459 D11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

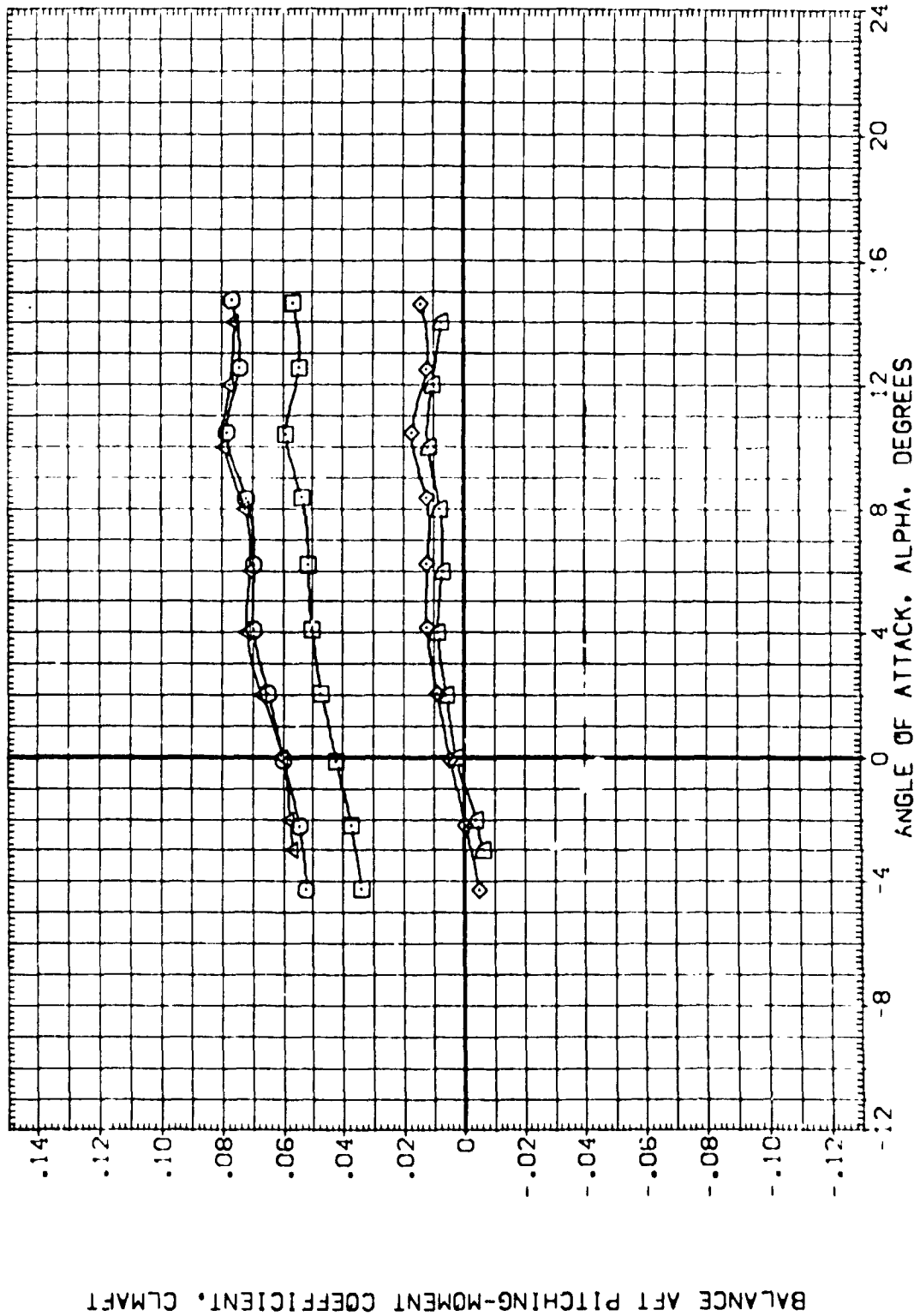
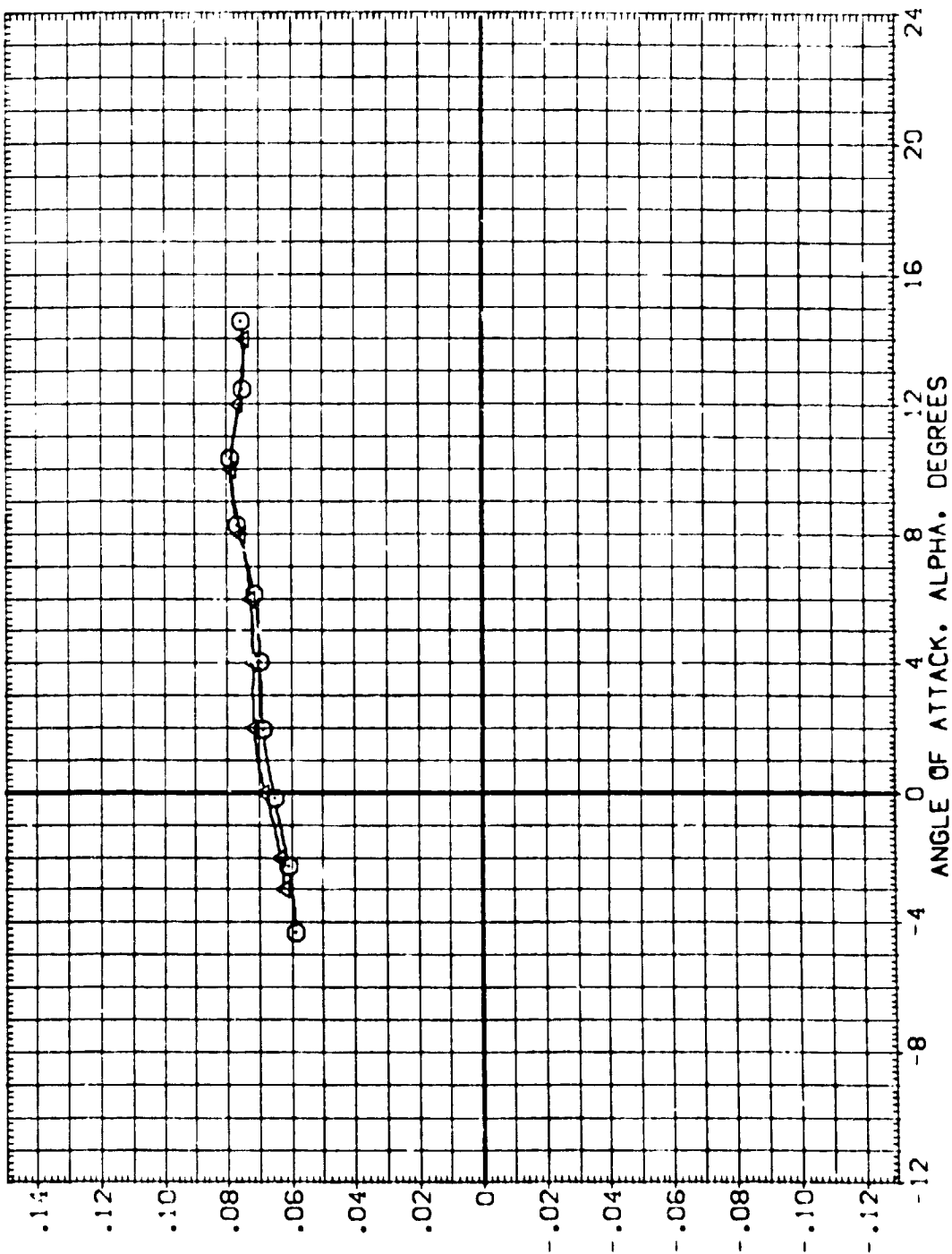


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MAC .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0459 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(CER023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 FT.
(CER019)	ARC 66-709 0459 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6755 IN.
(CER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(CER023)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

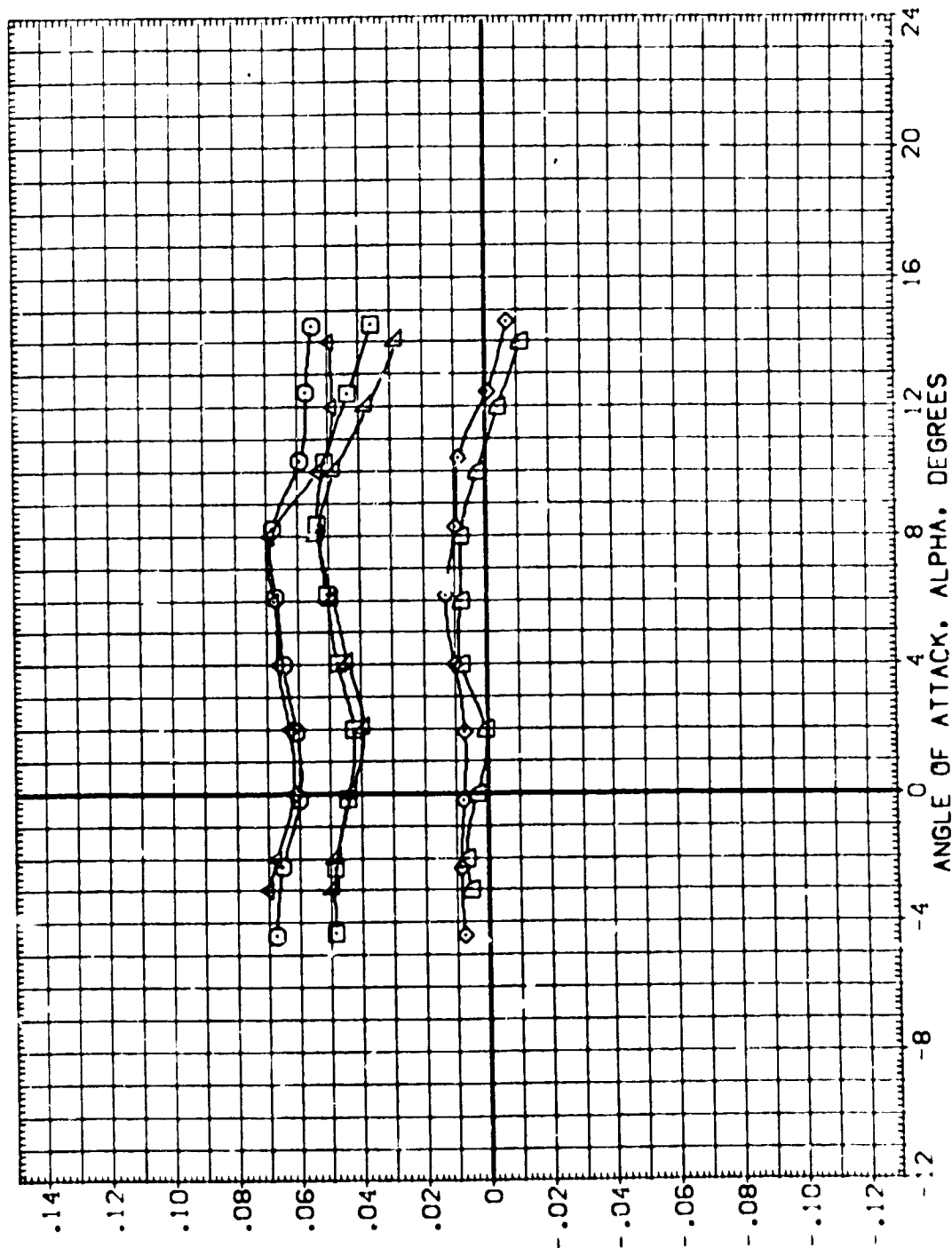


Balance Aft Pitching-Moment Coefficient, C_{LM} aft

FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MAC .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVATION	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CERO22)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(CERO23)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(CERO19)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(CERO22)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(CERO23)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150



Balance Aft Pitching-Moment Coefficient, CLMAFT

FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MAG 1 .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BET.	ELEVON	BOCLAP	REFERENCE INFORMATION
(CERO:9)		ARC 66-709 DASS G11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CERO:22)		ARC 66-709 DASS G11A-(N24)	.000	.000	.000	LREF .5935 FT.
(CERO:23)		ARC 66-709 DASS G11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(CERO:19)		ARC 66-709 DASS G11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(CERO:22)		ARC 66-709 DASS G11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP .0000 IN.
(CERO:23)		ARC 66-709 DASS G11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	SCALE -.3750 IN.

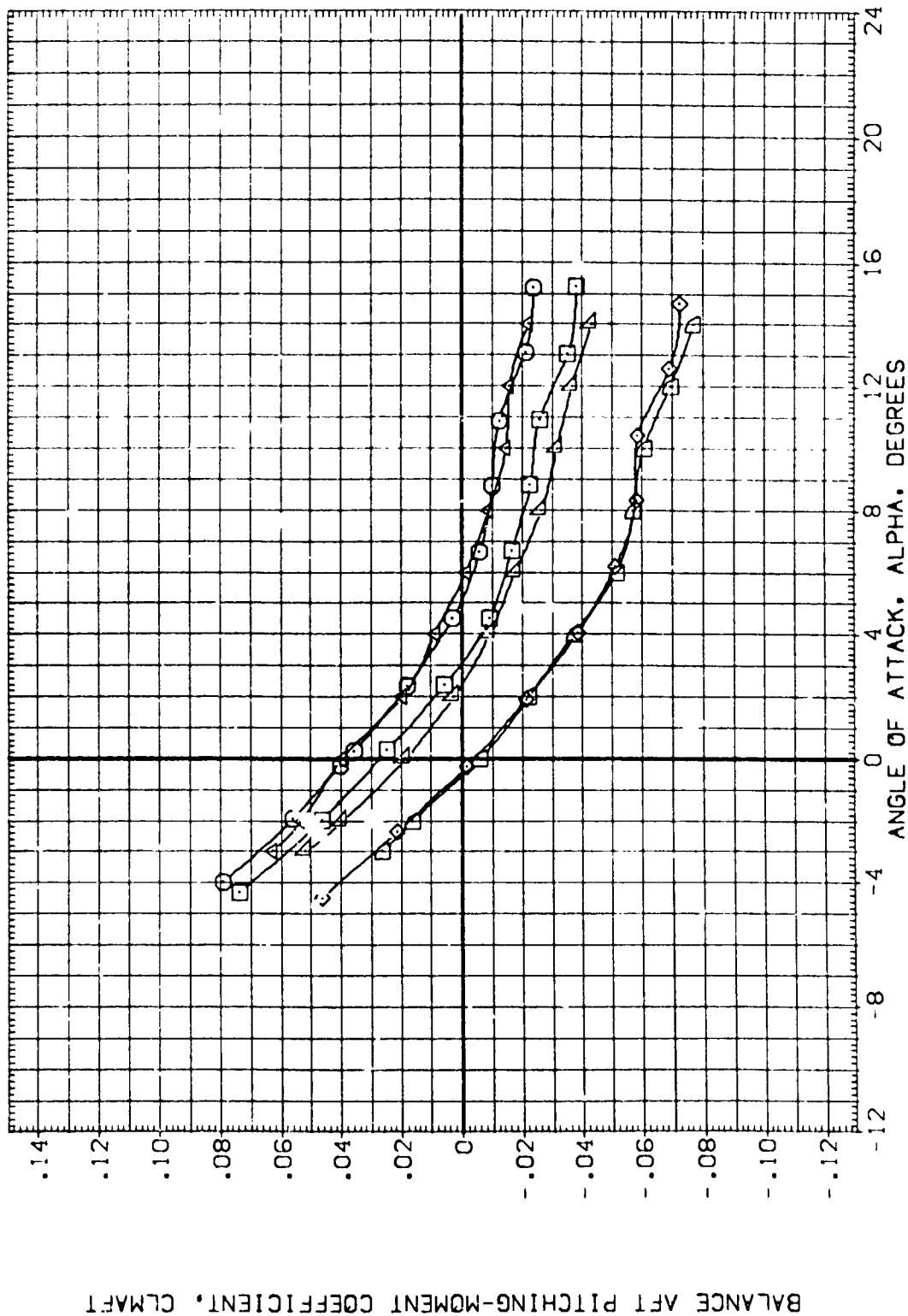


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0111A-(N24)	.000	.000	-11.700	34REF .6053 50.FT.
(CER022)	ARC 66-709 0A59 0111A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 0A59 0111A-(N24)	.000	.000	16.300	BRREF 1.1710 FT.
(CER019)	ARC 66-709 0A59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMREF 12.6255 IN.
(CER022)	DATA NOT AVAILABLE	.000	.000	.000	ZMREF .0000 IN.
(CER023)	ARC 66-709 0A59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	SCALE 10:50

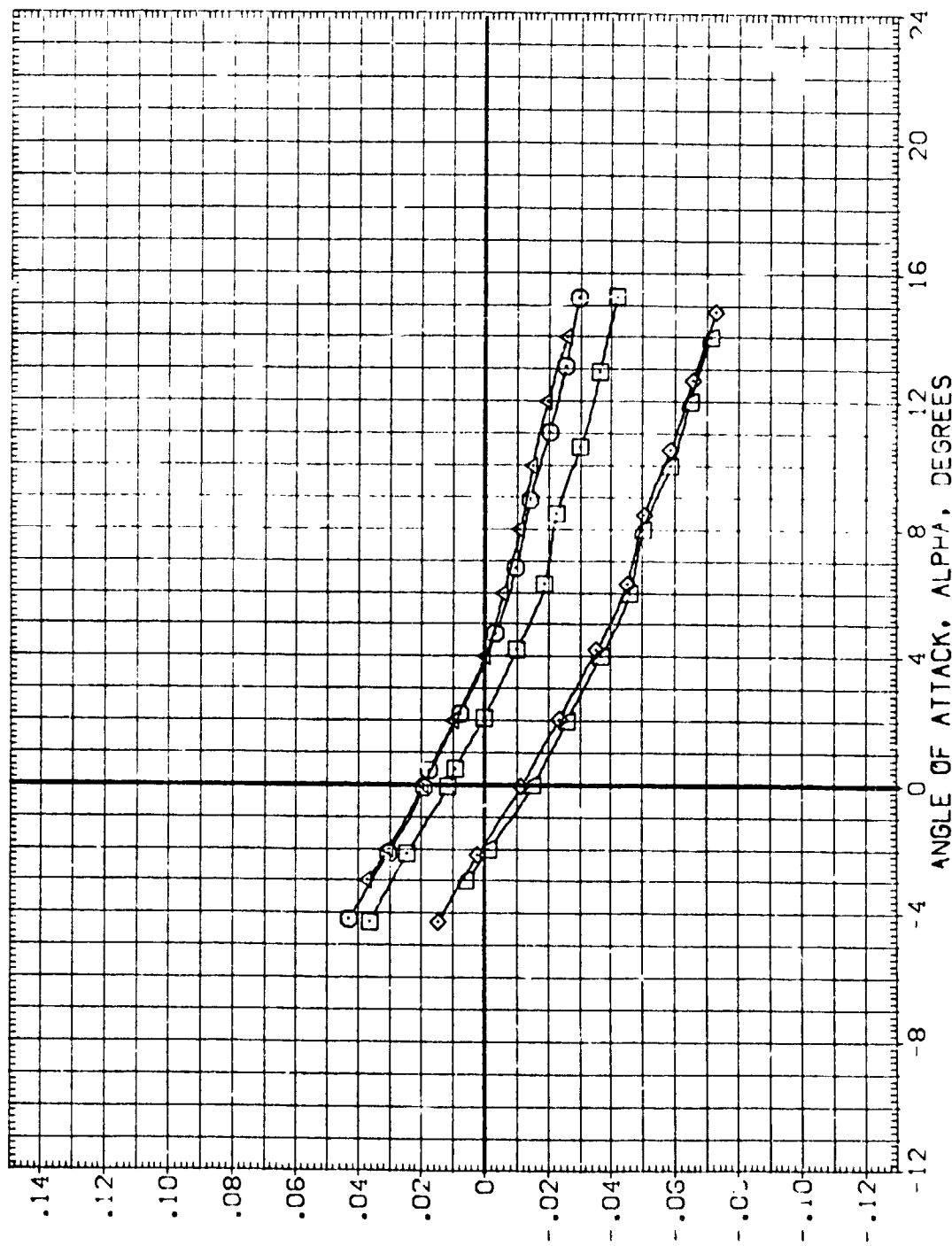


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(M)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF 50.53 50.53
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF 1.5935 1.5935
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 1.1710
(TER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XIRP 12.6255 12.6255
(TER022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YIRP .0000 .0000
(TER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZIRP -.3750 -.3750
					SCALE .0150

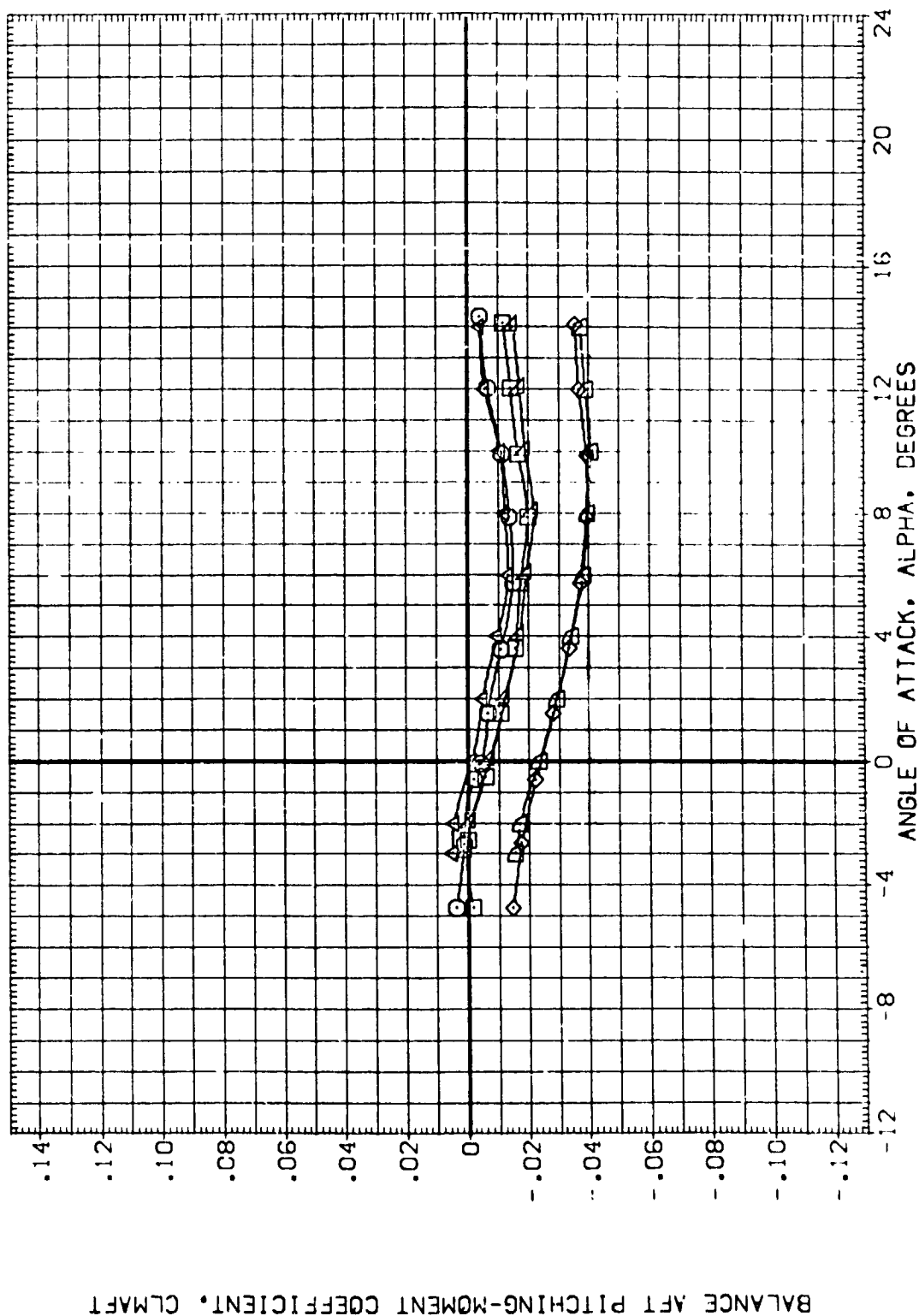


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(1)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(CERO22)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	.000	LREF .5935 11.1710
(CERO23)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	16.300	BREF 12.6255 12.6255
(CERO19)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP .0000 N.
(CERO22)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP -.3750 N.
(CERO23)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	SCALE 0.50

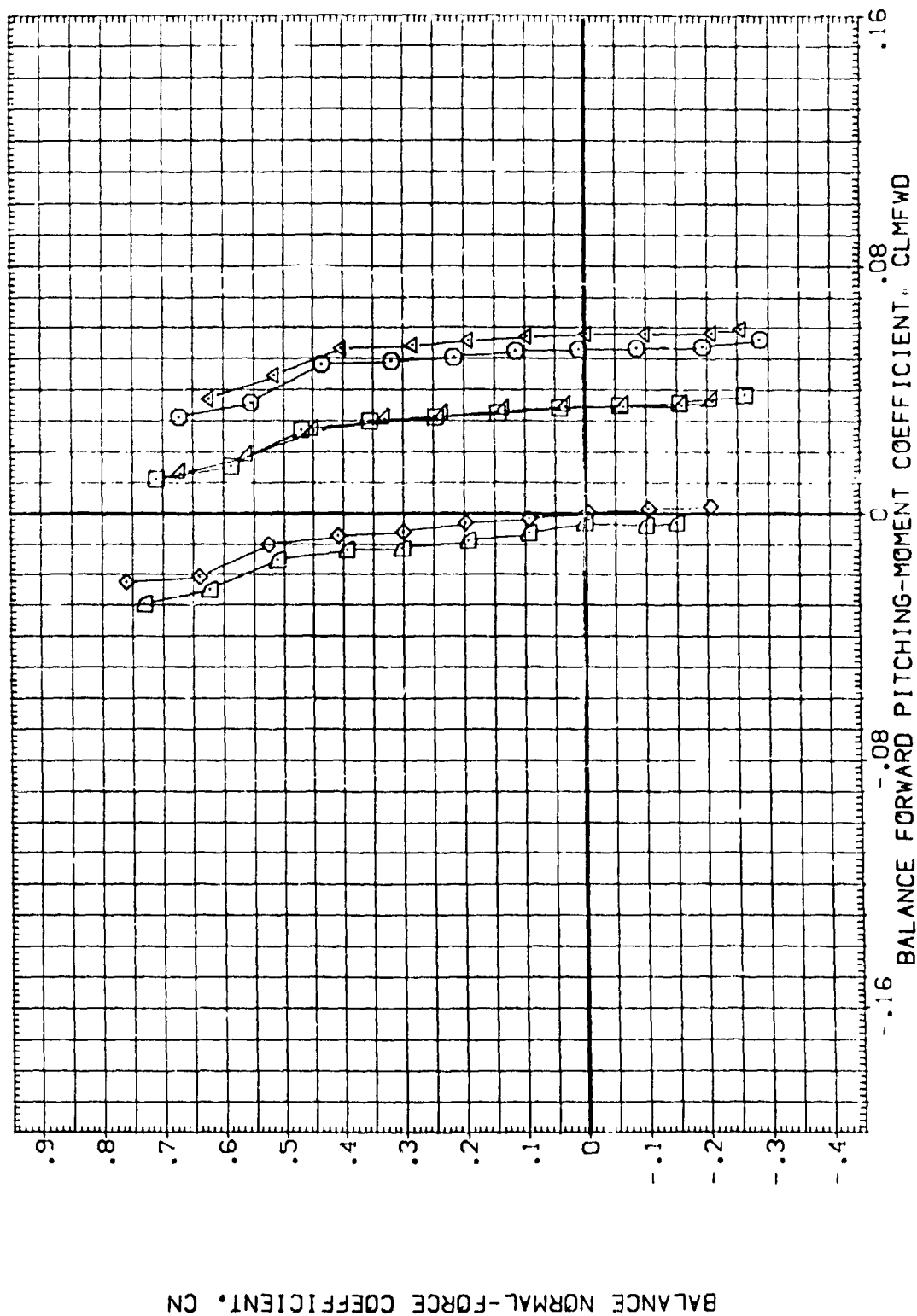


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES
[A]MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(CER019)	DATA NOT AVAILABLE	.000	.000	-11.700	SREF 6053 SQ.FT.
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF 5935 FT.
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-16.300	BREF 1.1710 IN.
(CER019)	DATA NOT AVAILABLE	.000	.000	-11.700	XMRP 12.6255 IN.
(CER022)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
(CER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	SCALE .0150

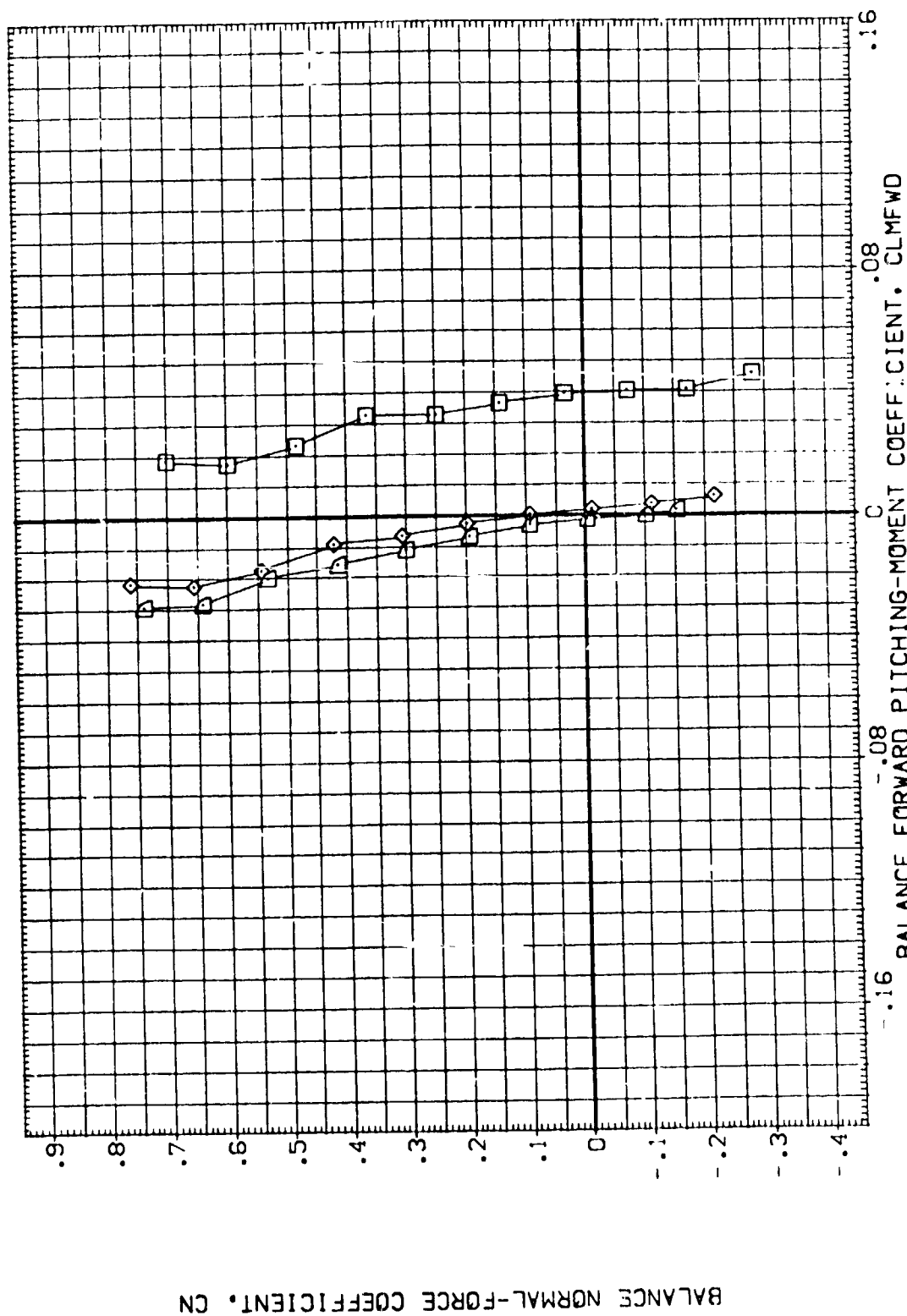


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(B)MAC - .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOF LIP	REFERENCE INFORMATION
[CER019]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.000	SREF .6053 SQ.FT.
[CER022]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
[CER023]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	BREF 1.1710 FT. IN.
[CER019]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	XMRP 12.6255 IN.
[CER022]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	YMRP .3750 IN.
[CER023]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	SCALE .0150

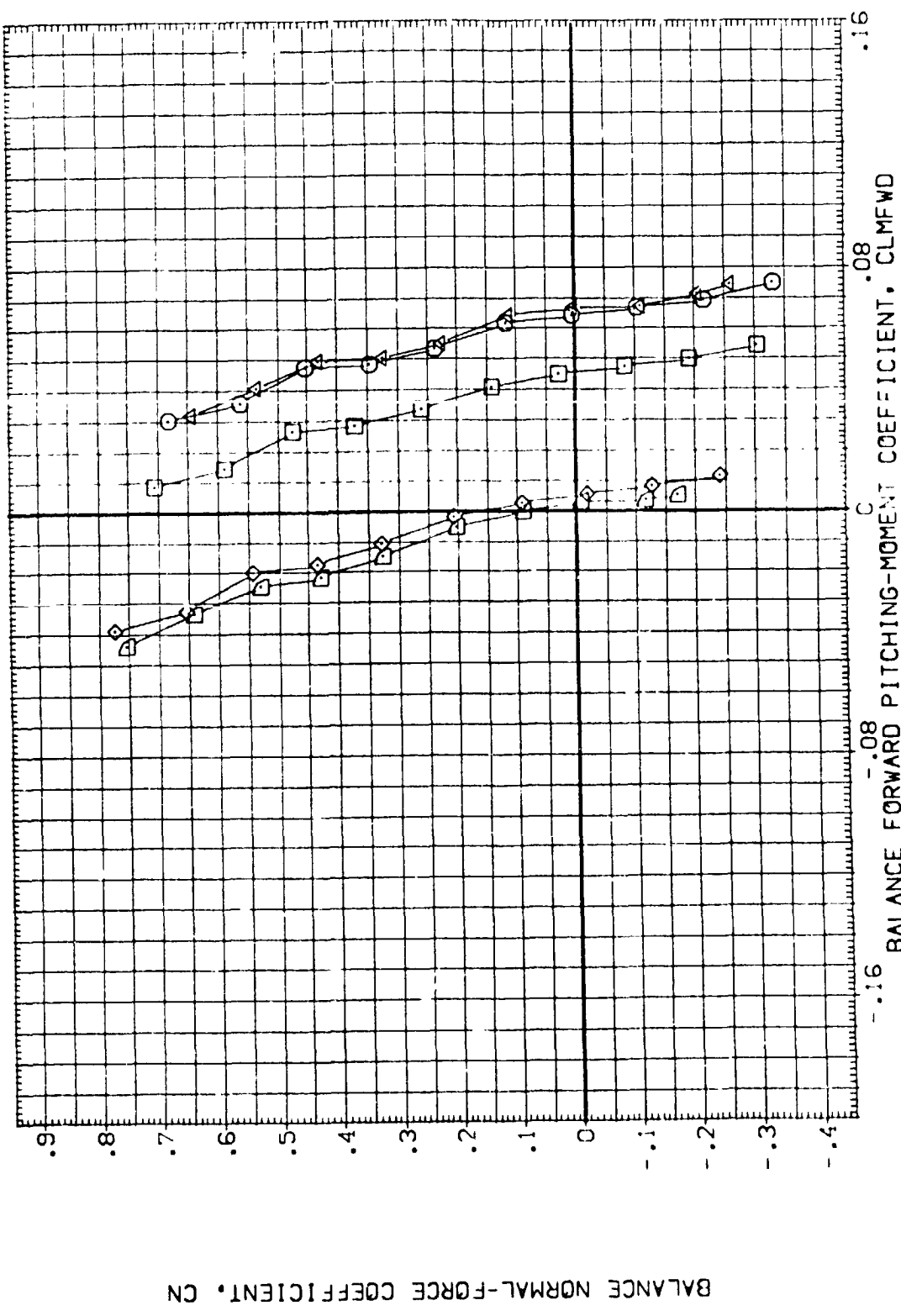


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BODY LAP REFERENCE INFORMATION

(CER019) ARC 66-709 QAS9 0111A-(N24) .000 .000 -11 700 SREF .6053 50.FT.

(CER022) DATA NOT AVAILABLE .000 .000 .000 LREF .5935 FT.

(CER023) DATA NOT AVAILABLE .000 .000 16 300 BREF 1.1710 IN.

(1ER019) ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES) .000 .000 -11 700 XMRP 12.6255 IN.

(1ER022) DATA NOT AVAILABLE .000 .000 .000 ZMRP -.0000 IN.

(1ER023) DATA NOT AVAILABLE .000 .000 16 300 SCALE .0150

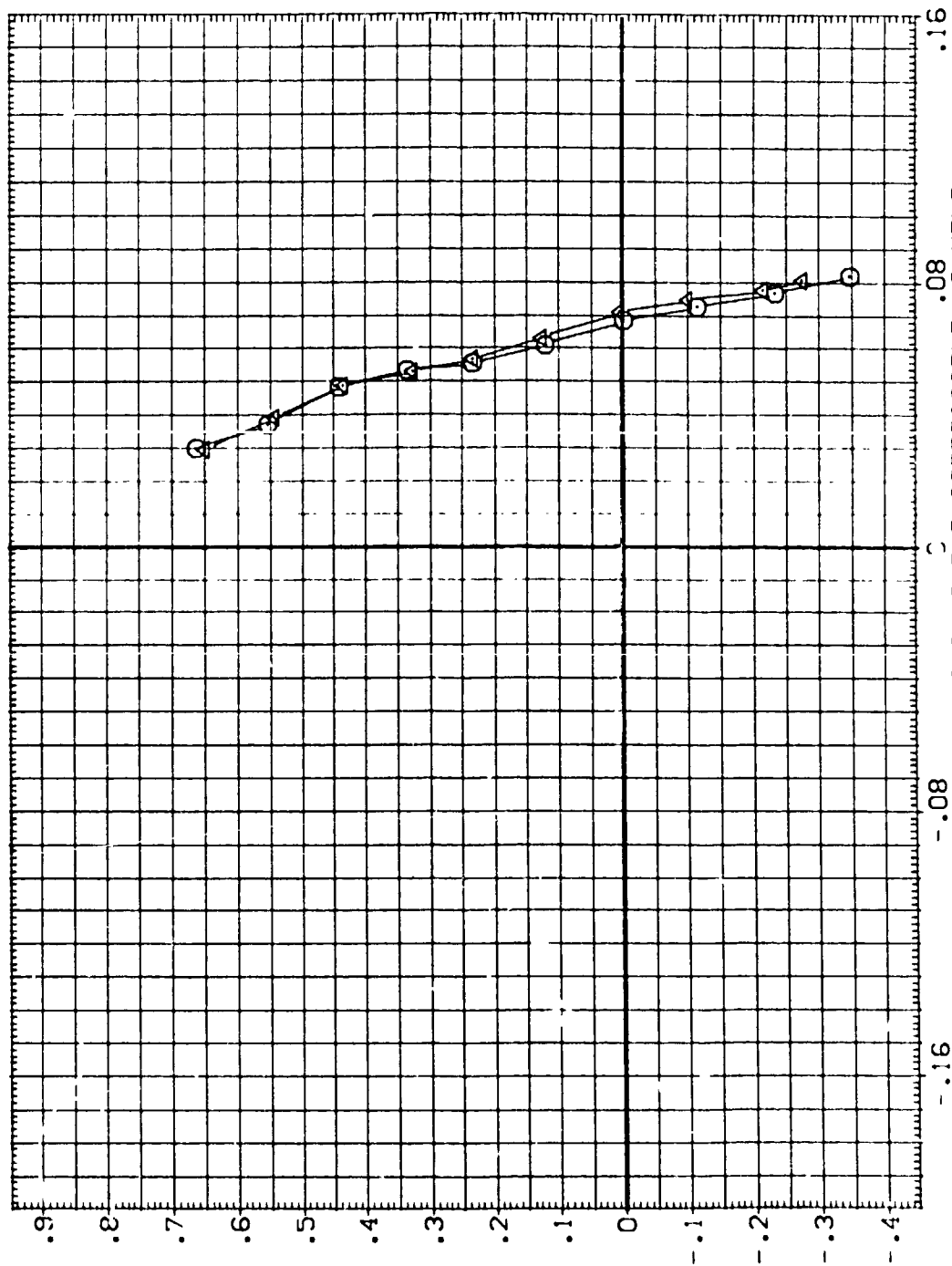


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CERO19)	ARC 66-709 0A59	0A11A-(N24)
(CERO22)	ARC 66-709 0A59	0A11A-(N24)
(CERO23)	ARC 66-709 0A59	0A11A-(N24)
(CERO19)	ARC 66-709 0A59	0A11A-N24 (ADJUSTED FOR TARES)
(CERO22)	ARC 66-709 0A59	0A11A-N24 (ADJUSTED FOR TARES)
(CERO23)	ARC 66-709 0A59	0A11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BEFLAP

.000	.000	-11.700
.000	.000	.000
.000	.000	16.300
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300

REFERENCE INFORMATION

SREF	-6053	50. FT.
LREF	-5935	FT.
BREF	1.1710	IN.
XMRP	12.6235	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

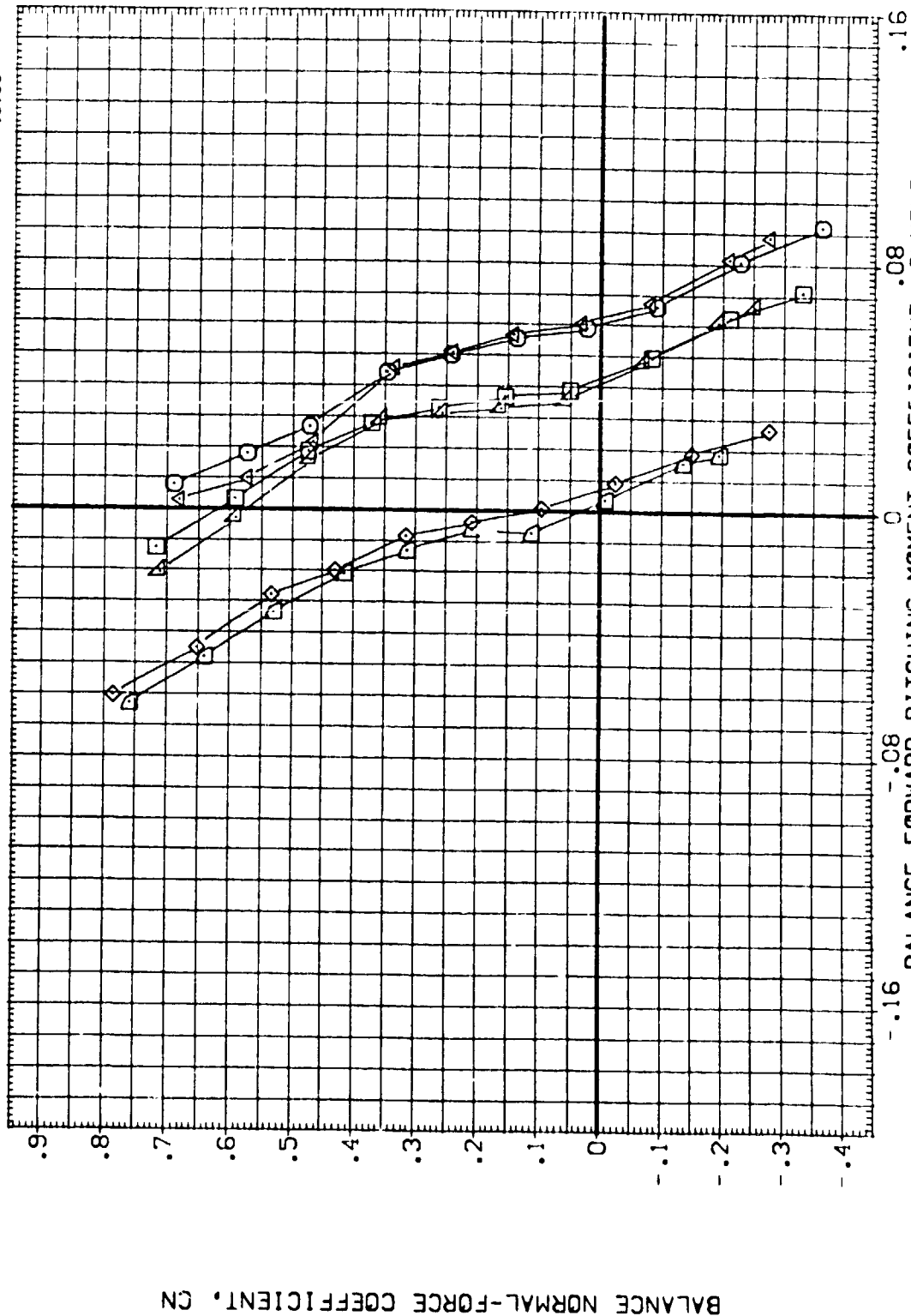


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BCFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(CER023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 IN.
(IER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(IER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(IER023)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

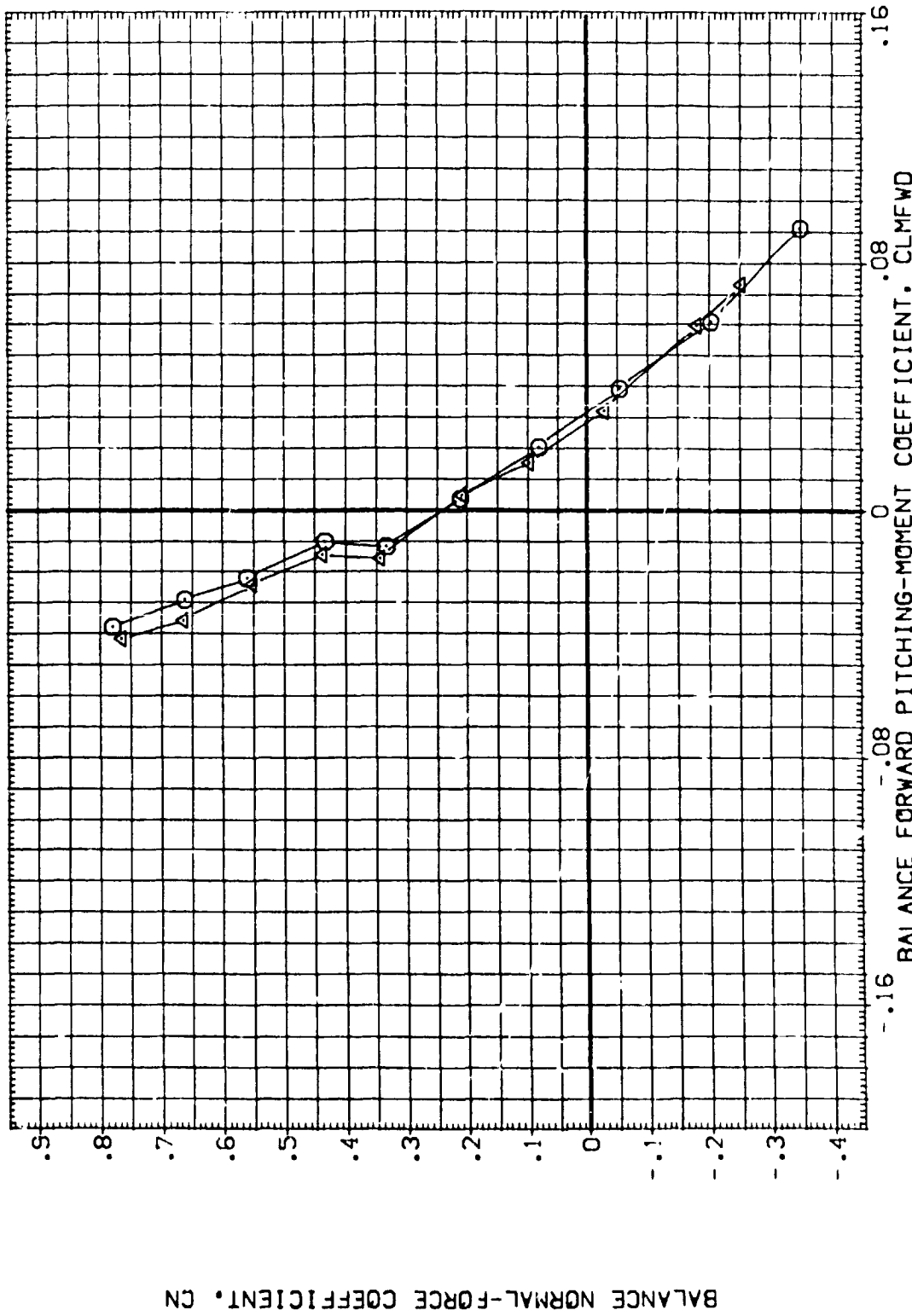


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL
 (CERO19)
 (CERO22)
 (CERO23)
 (CERO19)
 (CERO22)
 (CERO23)

CONFIGURATION DESCRIPTION
 ARC 66-709 0A59 0A11A-(N24)
 ARC 66-709 0A59 0A11A-(N24)
 ARC 66-709 0A59 0A11A-(N24)
 ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)
 ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)

BETA
 .000
 .000
 .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5535 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

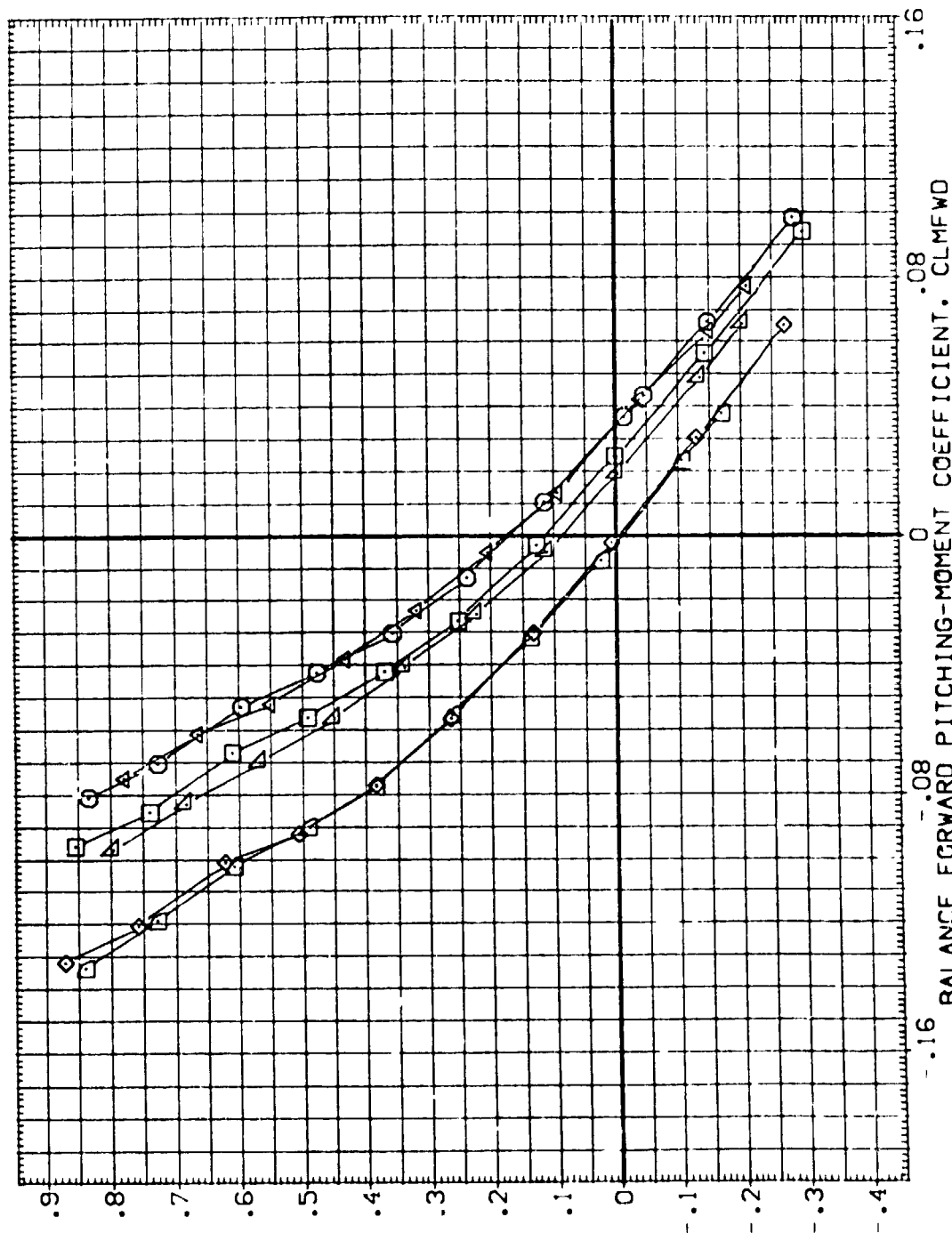


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH 1.20

BETA	ELEVON	BDF LAP
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION
(CFR019)	ARC 66-709	D11A-N24
(CLR022)	ARC 66-709	D11A-N24
(CER023)	ARC 66-709	D11A-N24
(LFR019)	ARC 66-709	D11A-N24
(LFR022)	DATA NOT AVAILABLE	
(LFR023)	ARC 66-709	D11A-N24

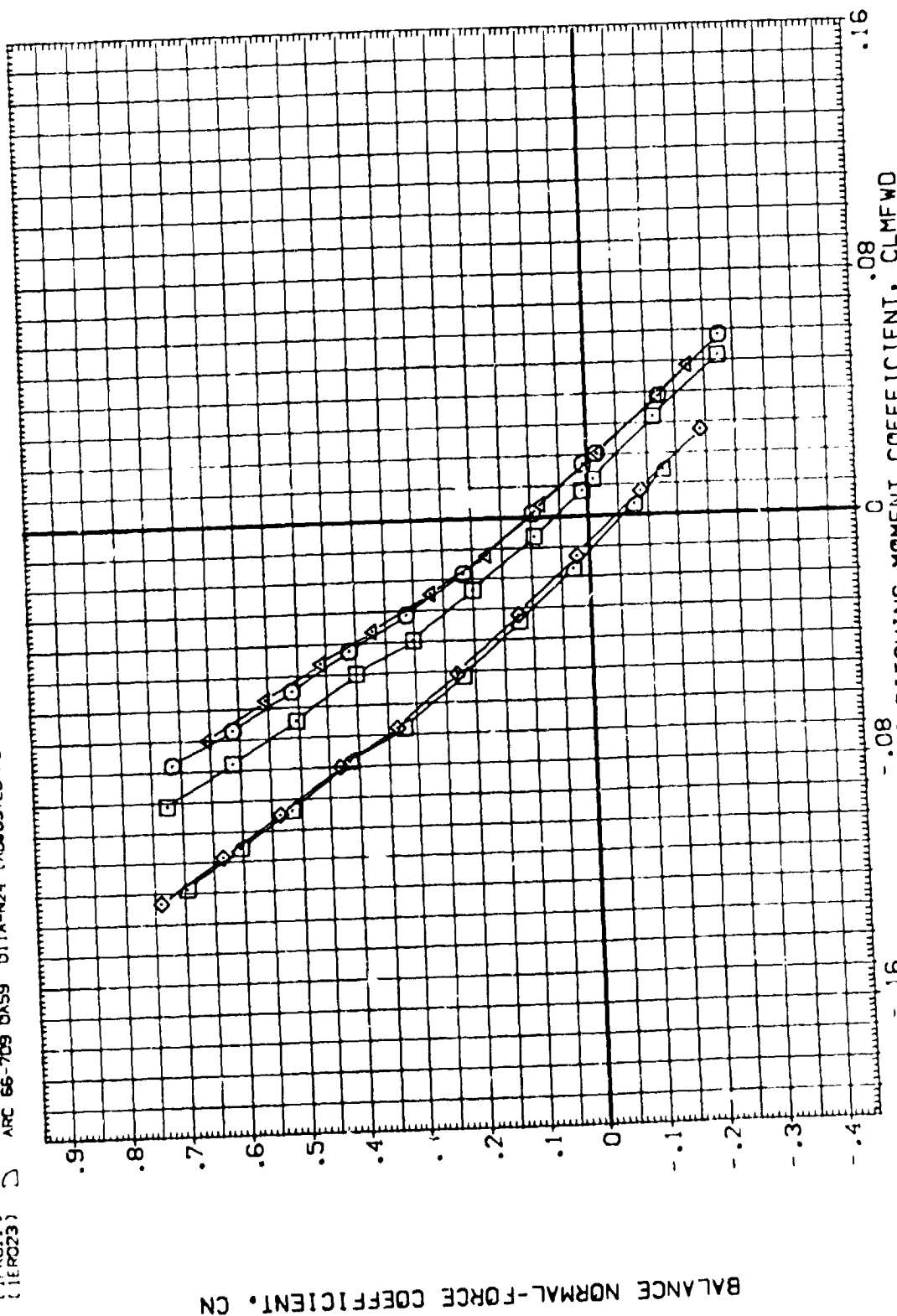
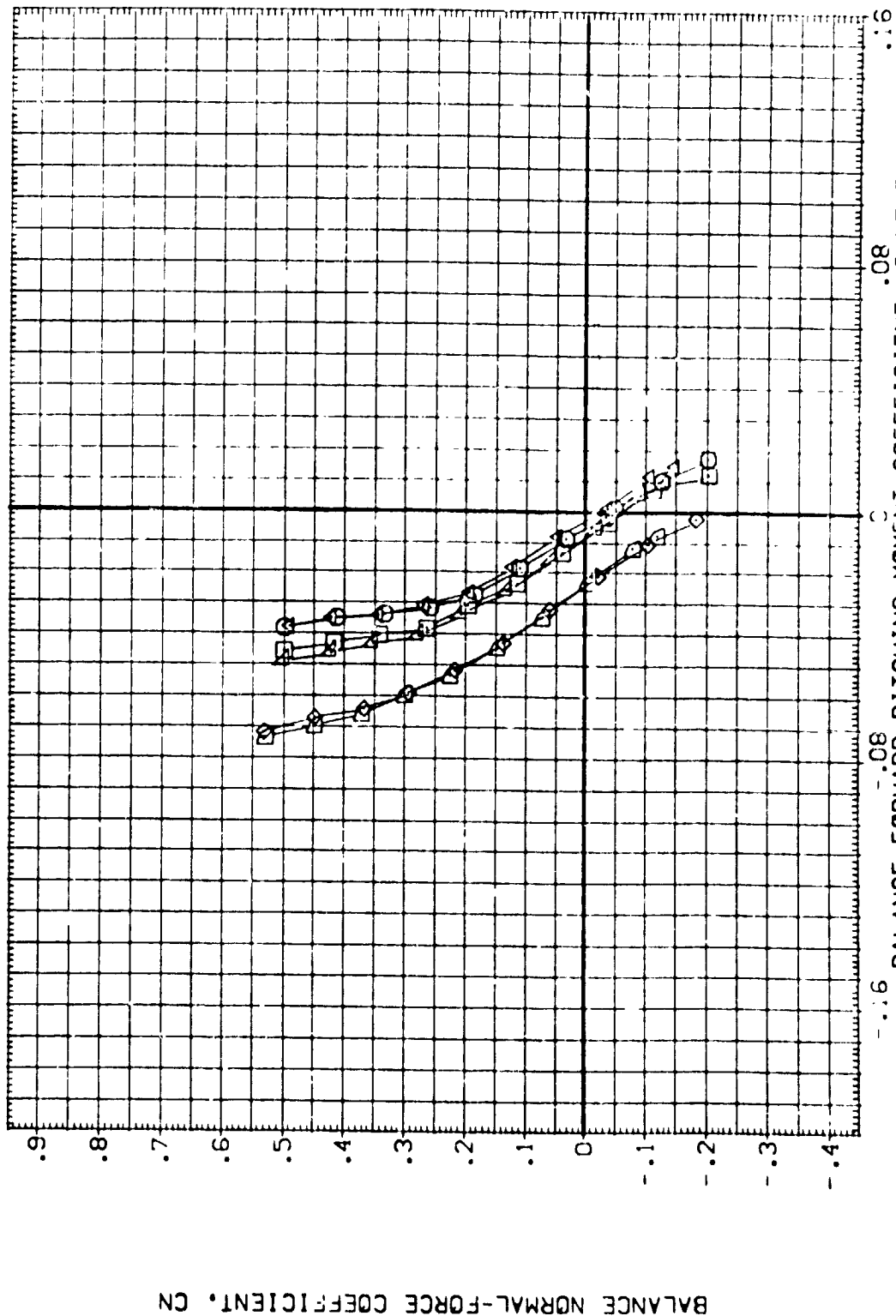


FIG 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5936 FT.
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(IER019)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMPP 12.6755 IN.
(IER022)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMPP .0000 IN.
(IER023)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMPP -.3750 IN.
					SCALE .0150



CLMFWD

FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

CLMFWD = 2.00

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 DA59 OA11A-(N24)	.000	.000	-11.700	SREF .6053 SC.FT.
(CERO22)	ARC 66-709 DA59 OA11A-(N24)	.000	.000	.000	LREF .5935 FT.
(CERO23)	ARC 66-709 DA59 OA11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(CERO19)	ARC 66-709 DA59 OA11A-(N24)	.000	.000	-11.700	XMRP .0000 IN.
(CERO22)	ARC 66-709 DA59 OA11A-(N24)	.000	.000	.000	YMRP .0000 IN.
(CERO23)	ARC 66-709 DA59 OA11A-(N24)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

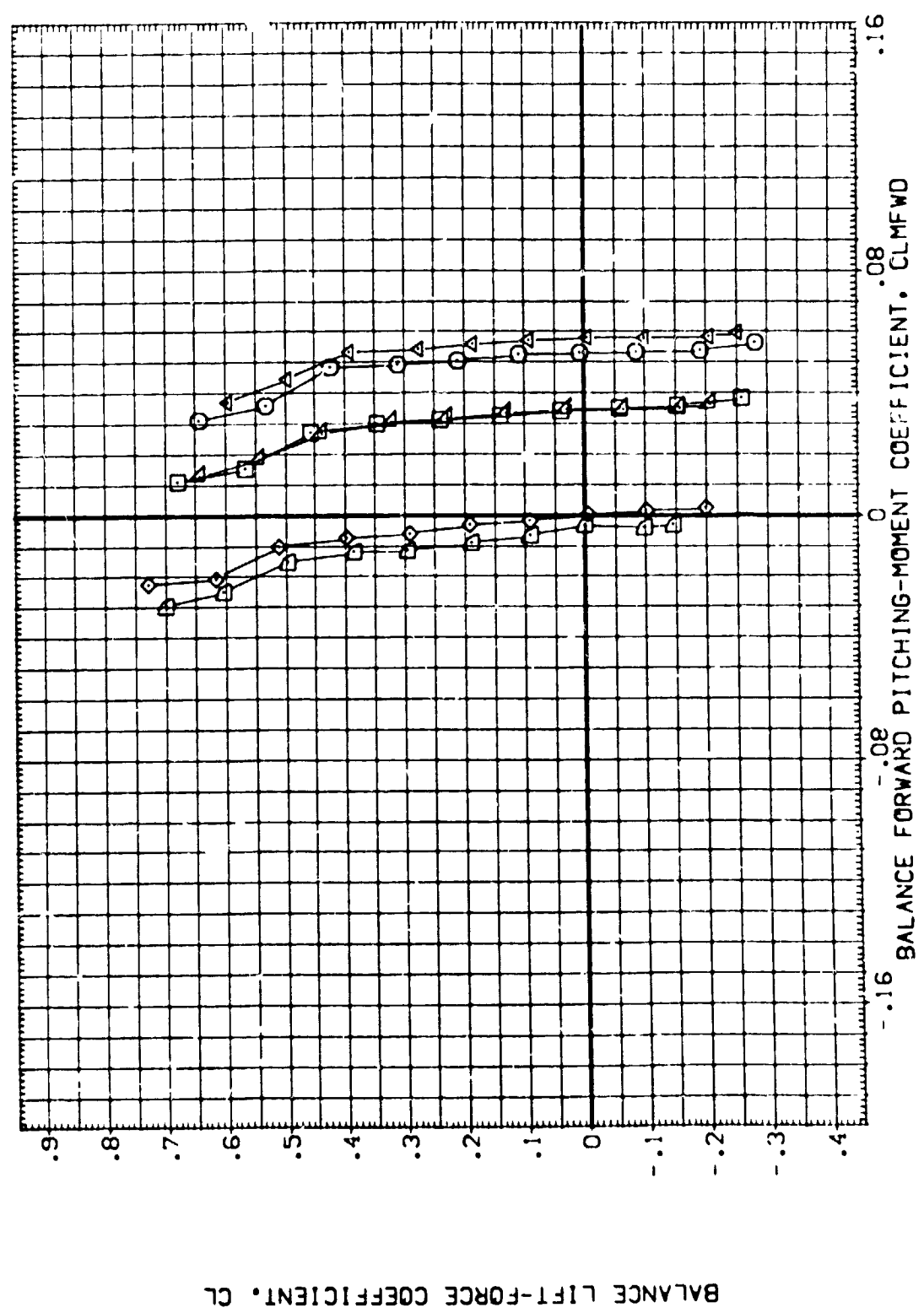


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(CER019)	DATA NOT AVAILABLE	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(1ER019)	DATA NOT AVAILABLE	.000	.000	-11.700	APRP 12.6235 IN.
(1ER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(1ER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

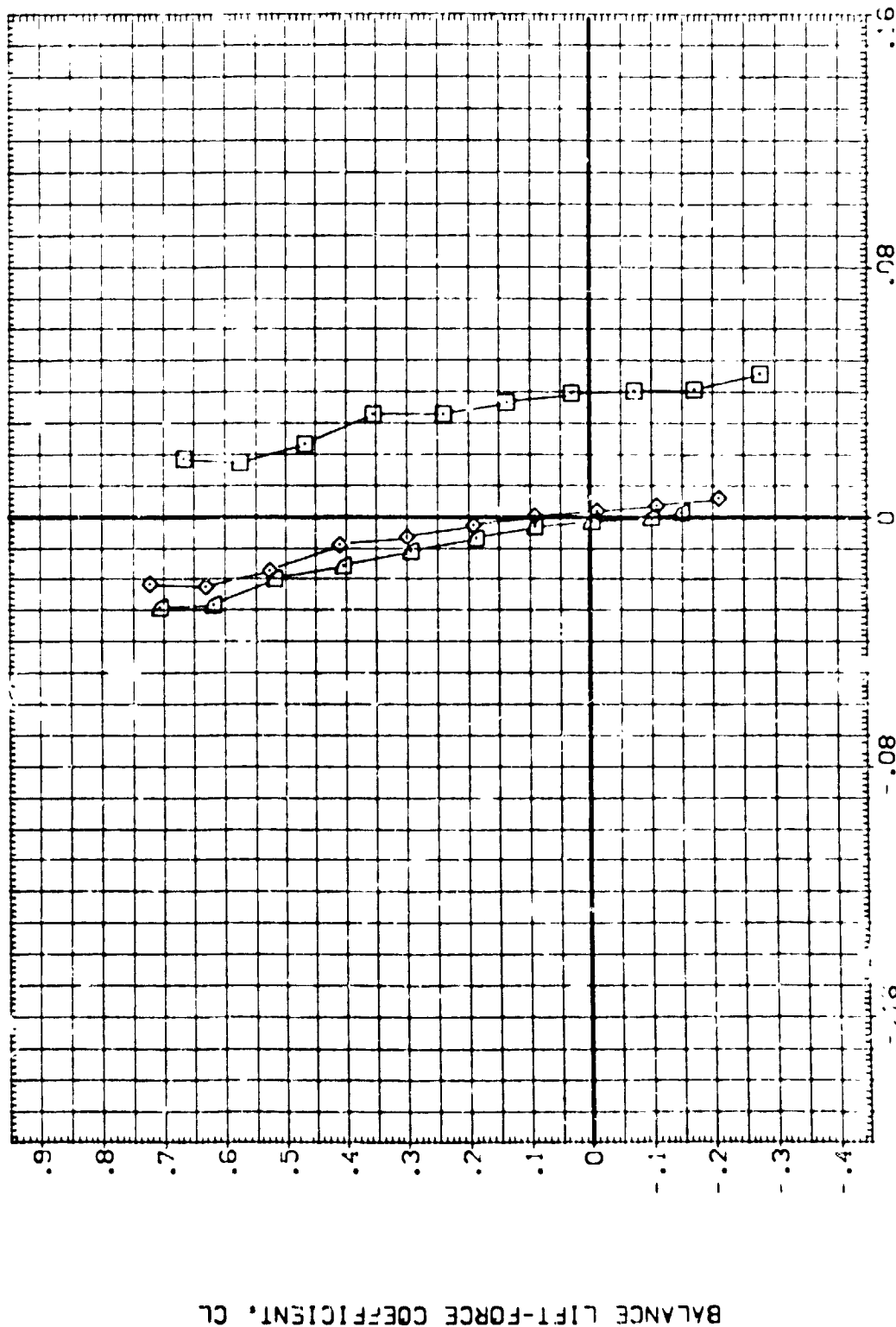


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 D459 D11A-N24	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	ARC 66-709 D459 D11A-N24	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 D459 D11A-N24	.000	.000	16.300	BREF 1.1710 IN.
(CER019)	ARC 66-709 D459 D11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRF 12.6255 IN.
(CER022)	ARC 66-709 D459 D11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRF .0000 IN.
(CER023)	ARC 66-709 D459 D11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRF -.3750 IN.
					SCALE .1 50

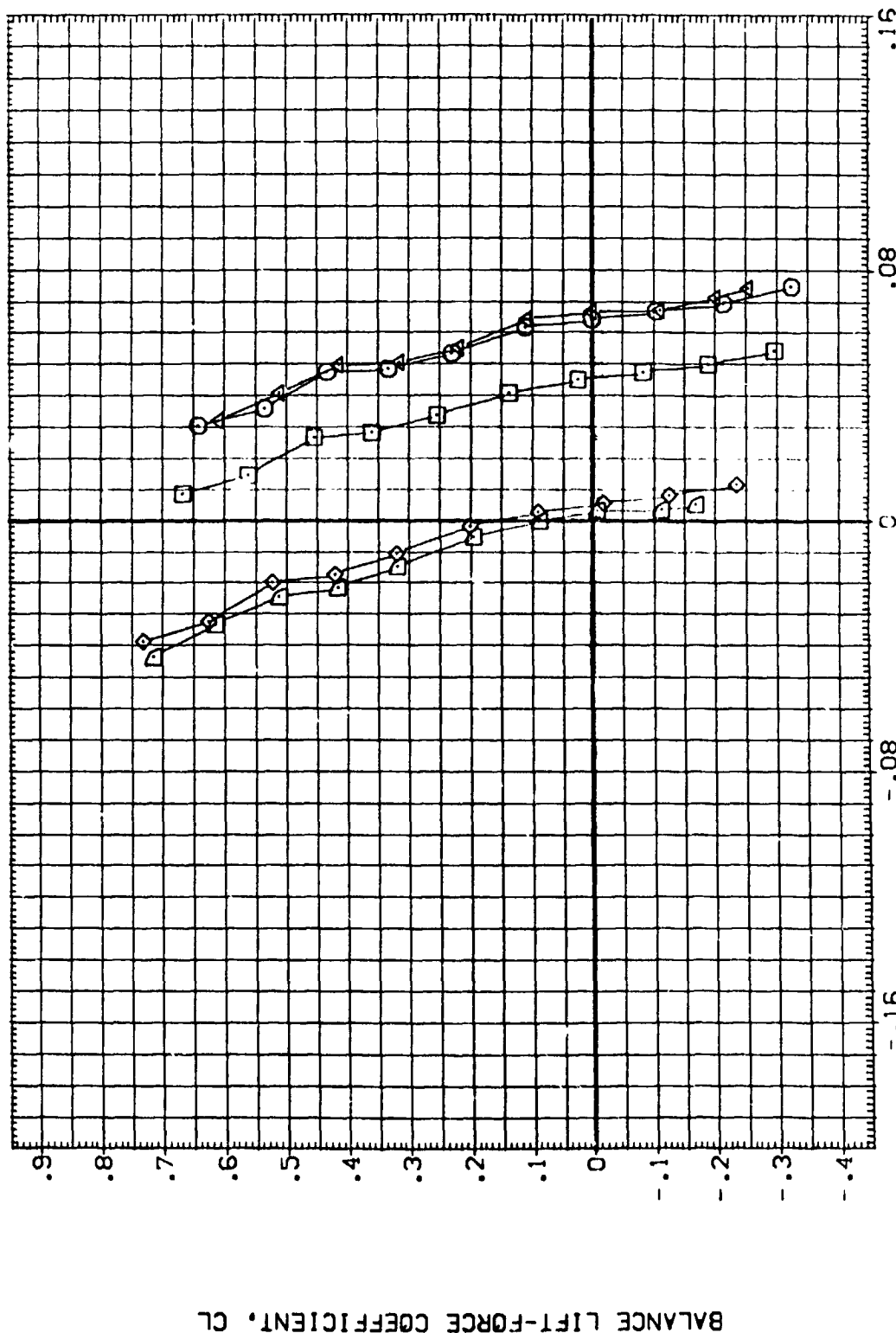


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(CER013)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(CER023)	DATA NOT AVAILABLE	.000	.000	16.300	BRF 1.1710 IN.
(CER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMPP 12.6255 IN.
(CER022)	DATA NOT AVAILABLE	.000	.000	.000	YMPP .0000 IN.
(CER023)	DATA NOT AVAILABLE	.000	.000	16.300	ZMPP -.3750 IN.
					SCALE .0150

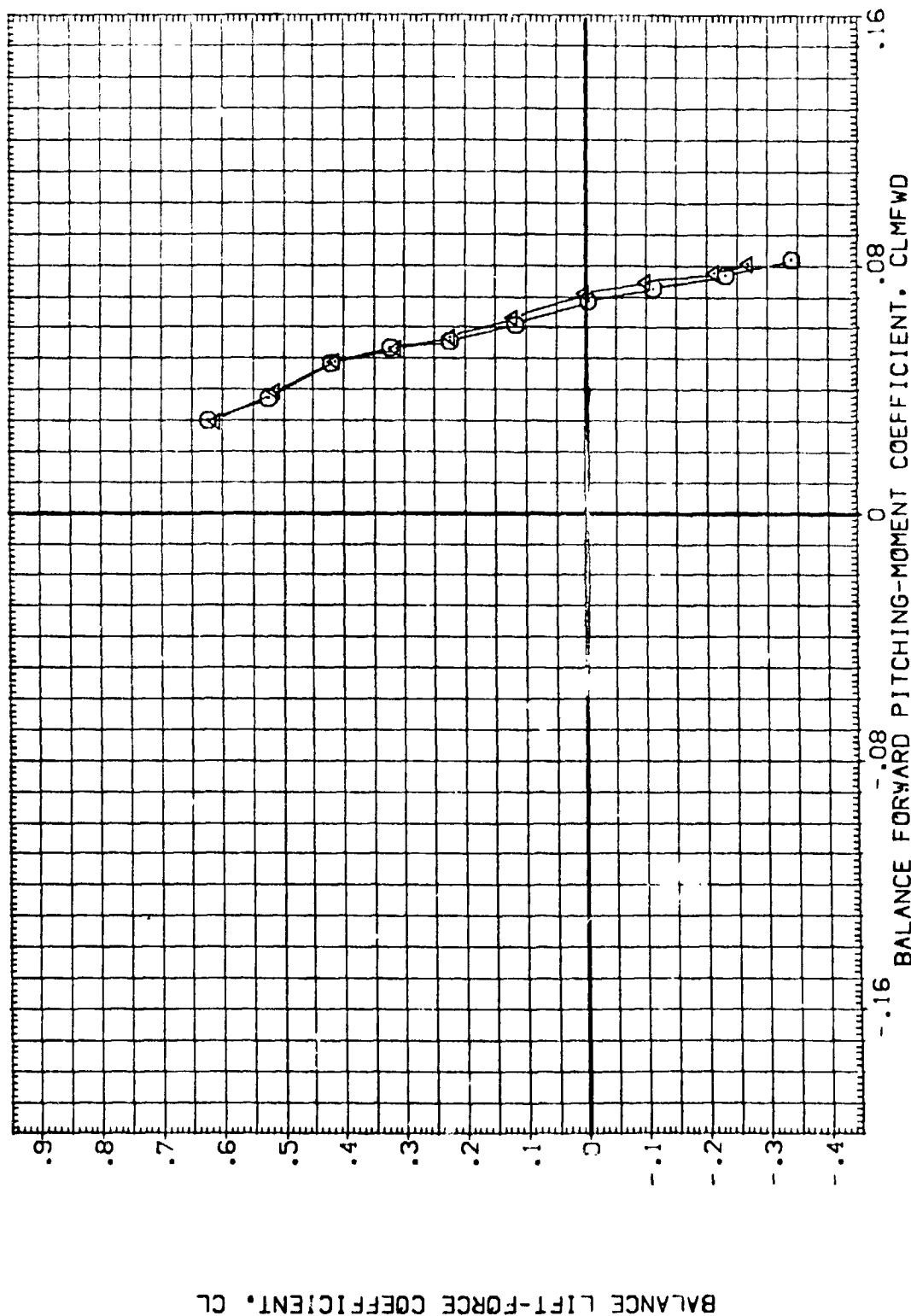


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(O)MAC = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 QAS9 Q111A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(CER022)	ARC 66-709 QAS9 Q111A-(N24)	.000	.000	.000	LREF .5936 FT.
(CER023)	ARC 66-709 QAS9 Q111A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(ILP019)	ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
(ILP022)	ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP .0000 IN.
(ILP023)	ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	SCALE -.3750 IN.

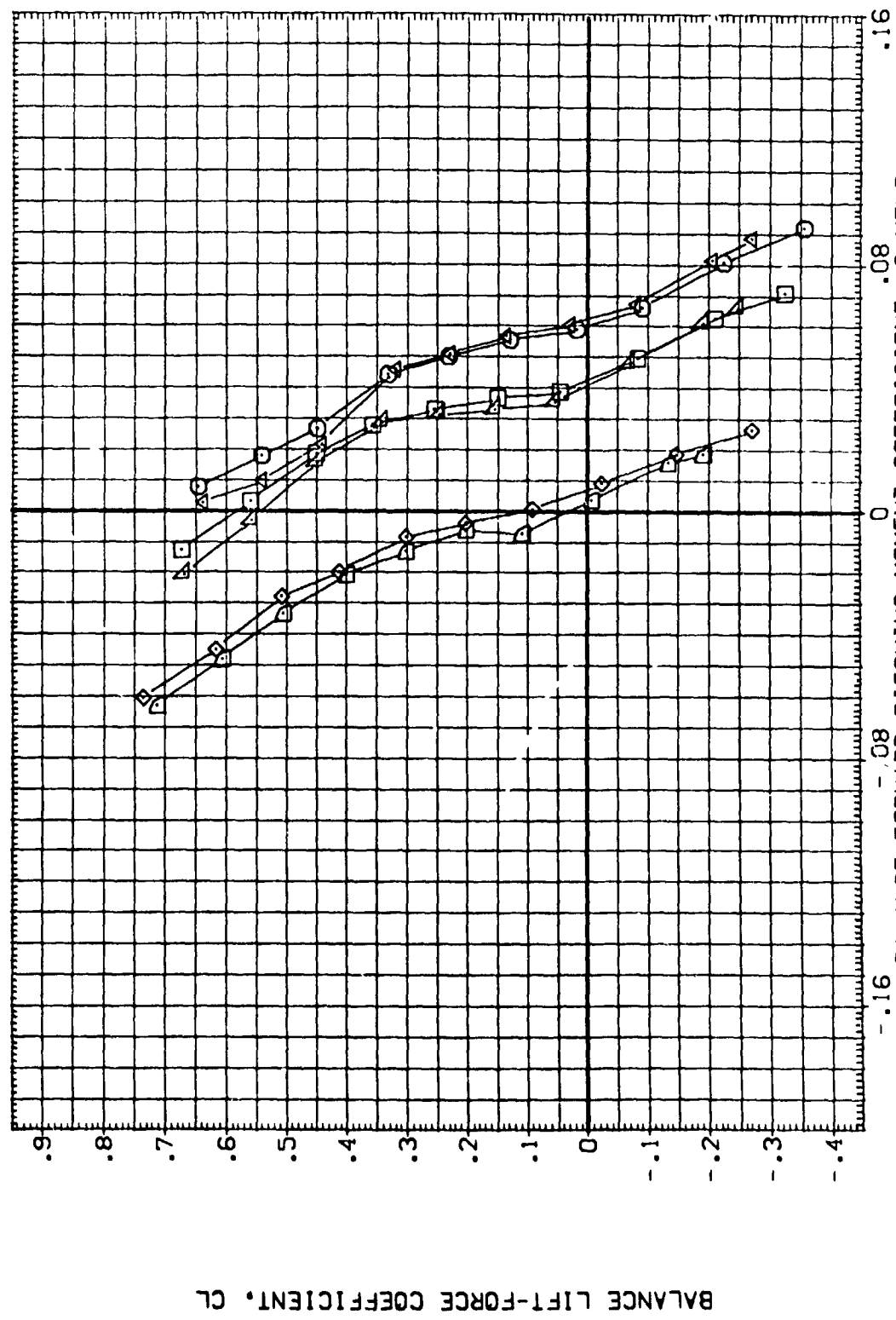


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVATION	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 OAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(CER023)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 F.
(TER019)	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(TER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(TER023)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

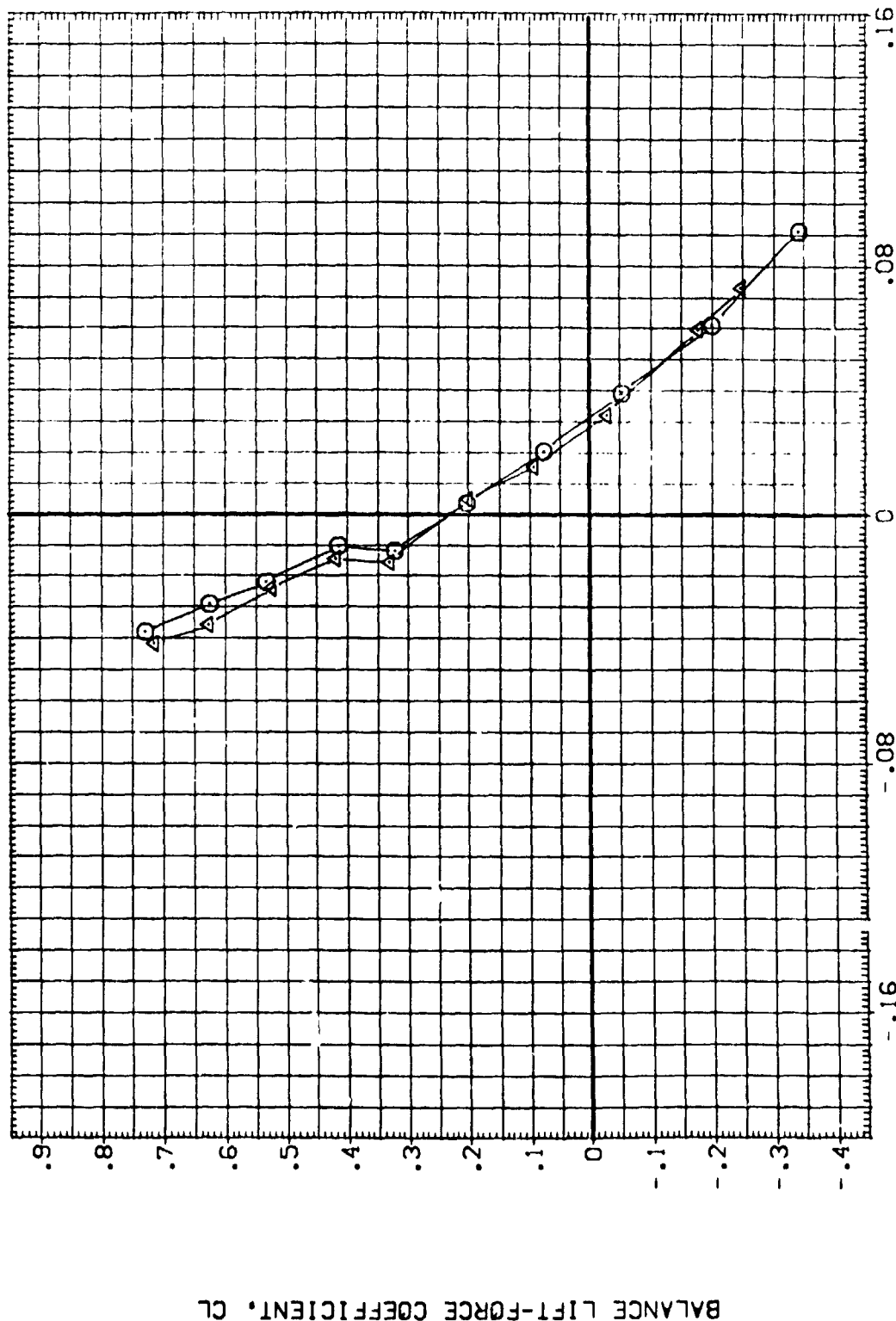


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(IER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
(IER022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP .0000 IN.
(IER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	SCALE .0150

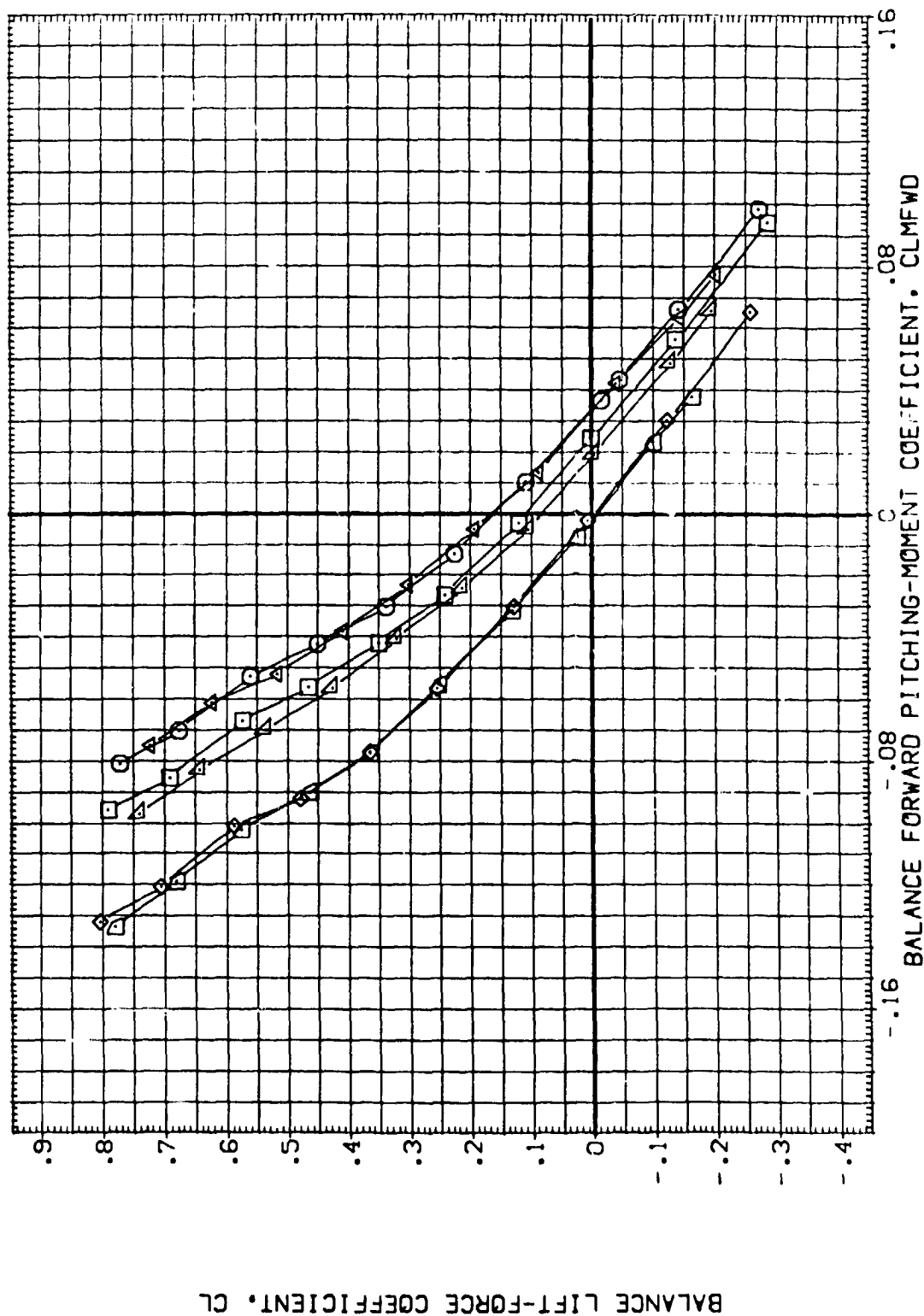


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 OAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(CER022)	ARC 66-709 OAS9 0111A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER073)	ARC 66-709 OAS9 0111A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(CER019)	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(IER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(IER023)	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

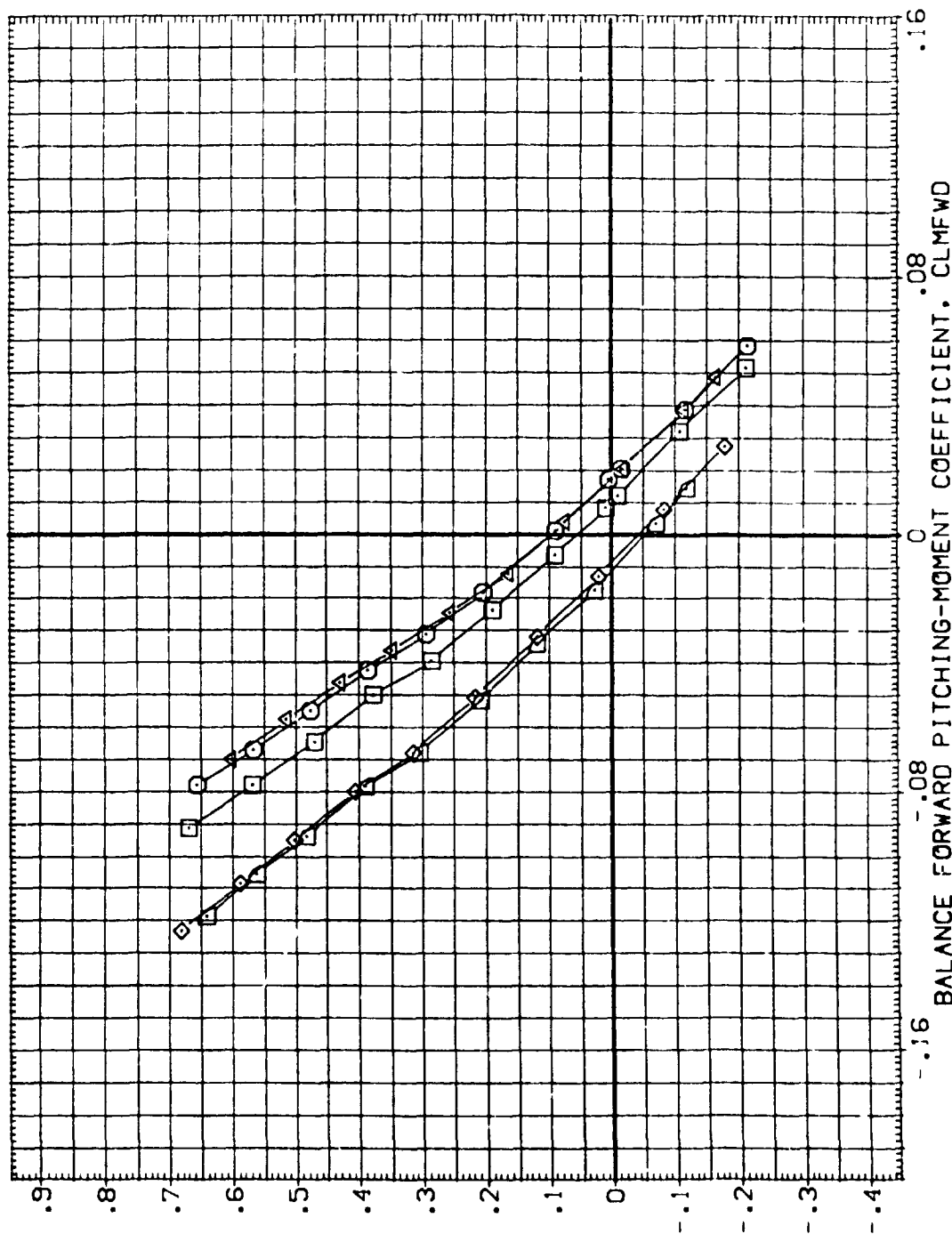


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 OAS9 O111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	ARC 66-709 OAS9 O111A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 OAS9 O111A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(1ER019)	ARC 66-709 OAS9 O111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
(1ER022)	ARC 66-709 OAS9 O111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP -.0000 IN.
(1ER023)	ARC 66-709 OAS9 O111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	SCALE .0150

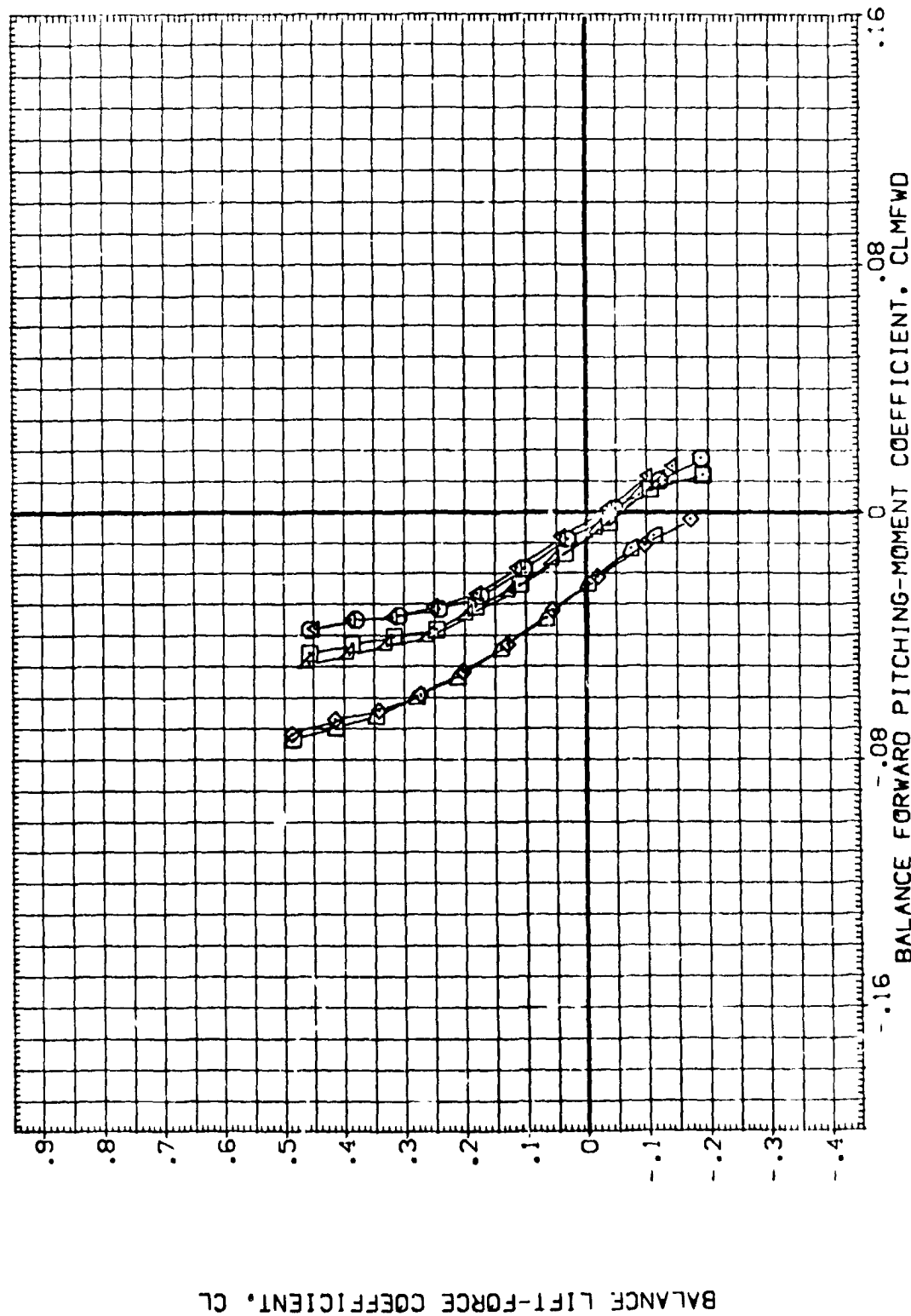


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(1)MAC - 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVATION	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 DAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 50.F.T.
(CER022)	ARC 66-709 DAS9 0111A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 DAS9 0111A-(N24)	.000	.000	.000	BREF 1.1710 FT.
(CER019)	ARC 66-709 DAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(CER022)	ARC 66-709 DAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(CER023)	ARC 66-709 DAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP -.3750 IN.
				16.300	SCALE .0150

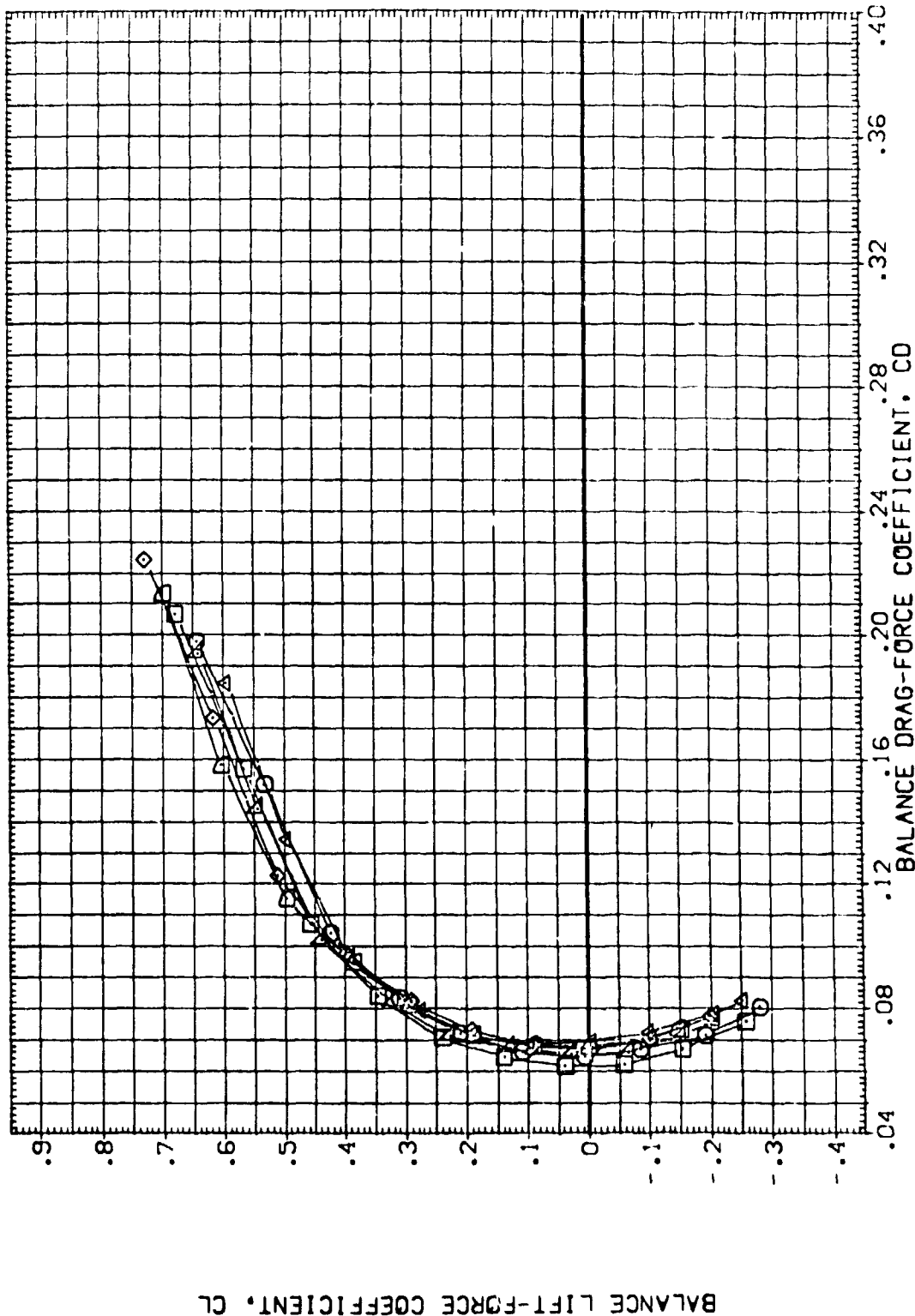


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CER019) DATA NOT AVAILABLE
 (CER022) ARC 66-709 DASS OA11A-(N24)
 (CER023) ARC 66-709 DASS OA11A-(N24)
 (CER019) DATA NOT AVAILABLE
 (CER022) ARC 66-709 DASS OA11A-(N24)
 (CER023) DATA NOT AVAILABLE

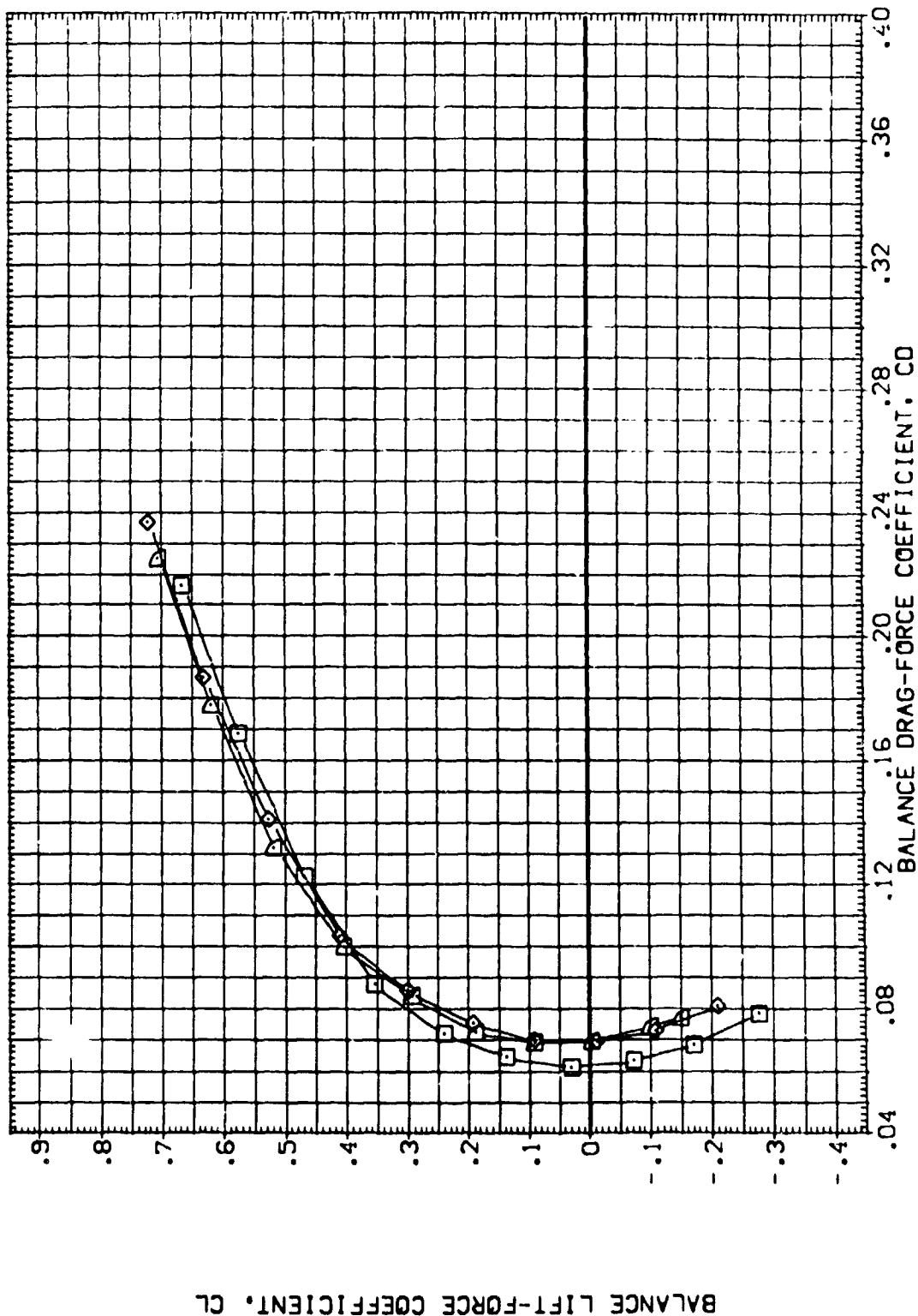


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(3)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(CERO19)	ARC 66-709 0A59 0111A-N24	.000	.000	-11.700	SREF .6053 SQ.FT.
(CERO22)	ARC 66-709 0A59 0111A-N24	.000	.000	.000	LREF .5935 FT.
(CERO23)	ARC 66-709 0A59 0111A-N24	.000	.000	16.300	BREF 1.1710 FT.
(CERO19)	ARC 66-709 0A59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
(CERO22)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP .0000 IN.
(CERO23)	ARC 66-709 0A59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	SCALE -.3750 IN.

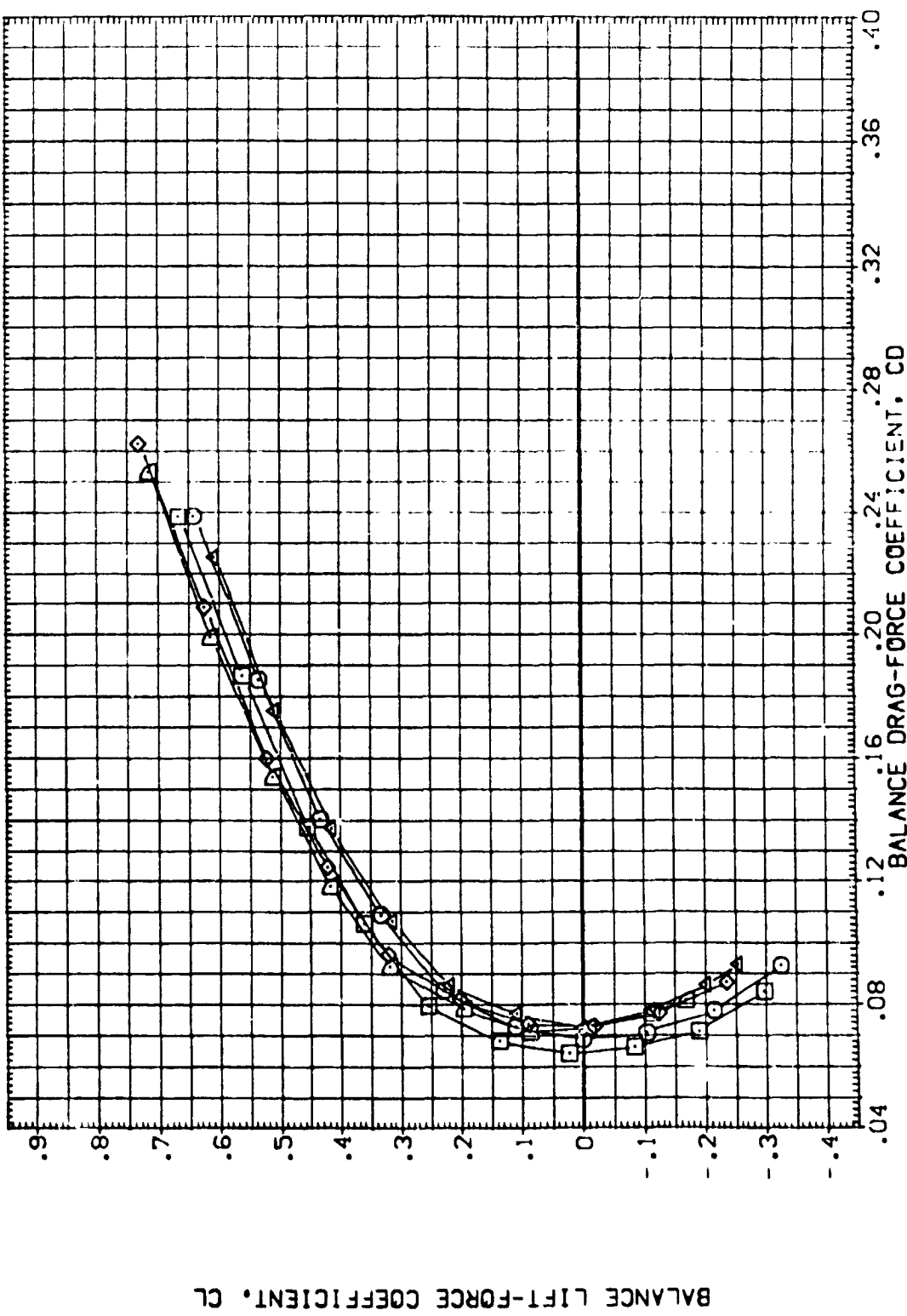


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 QAS9 Q111A-(N04)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(CER023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 IN.
(CER019)	ARC 66-709 QAS9 Q11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6755 IN.
(CER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(CER023)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

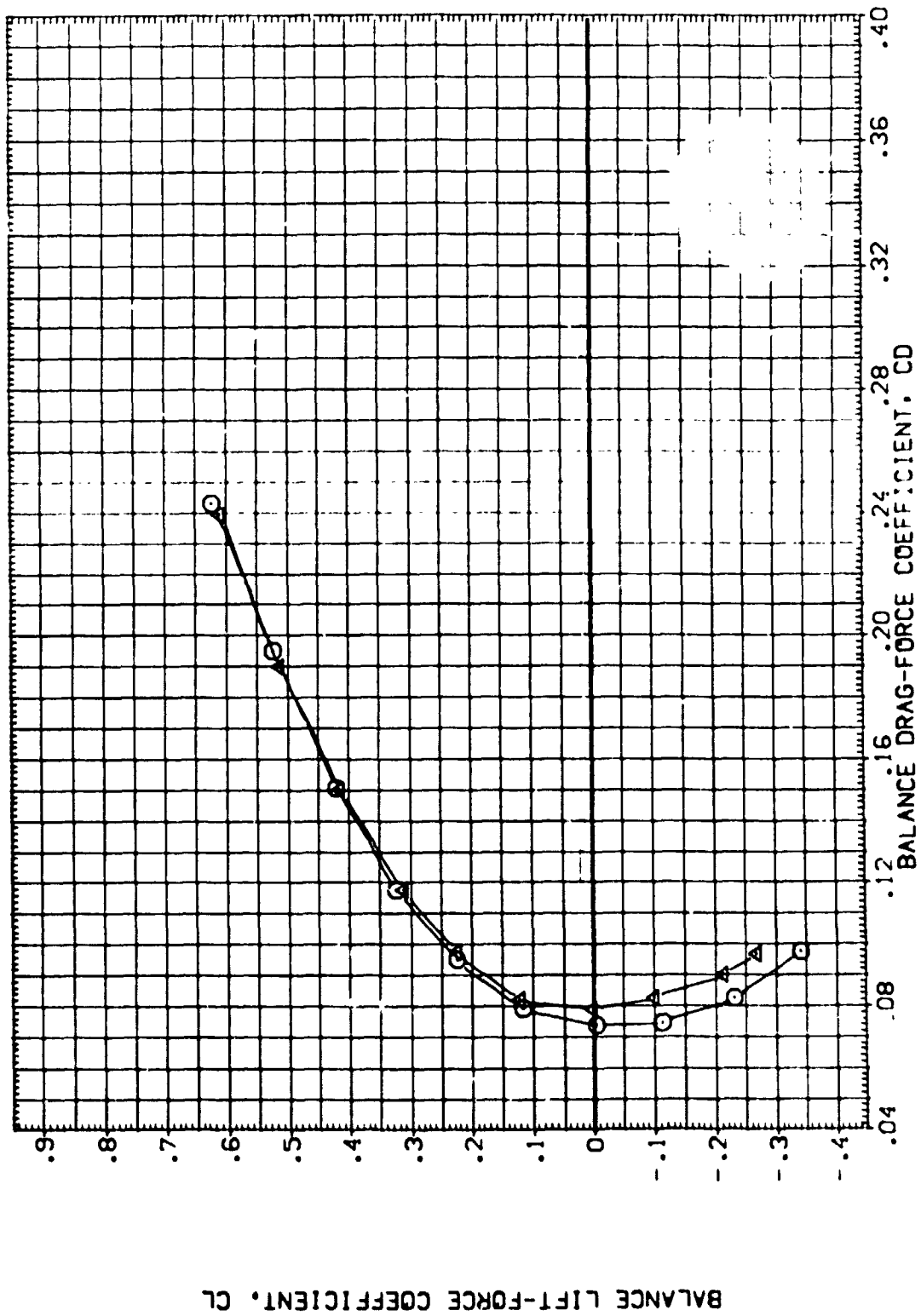


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(O)MACH .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SC.FT.
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	XMRP 12.6255 IN.
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	YMRP .0000 IN.
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE 0.150

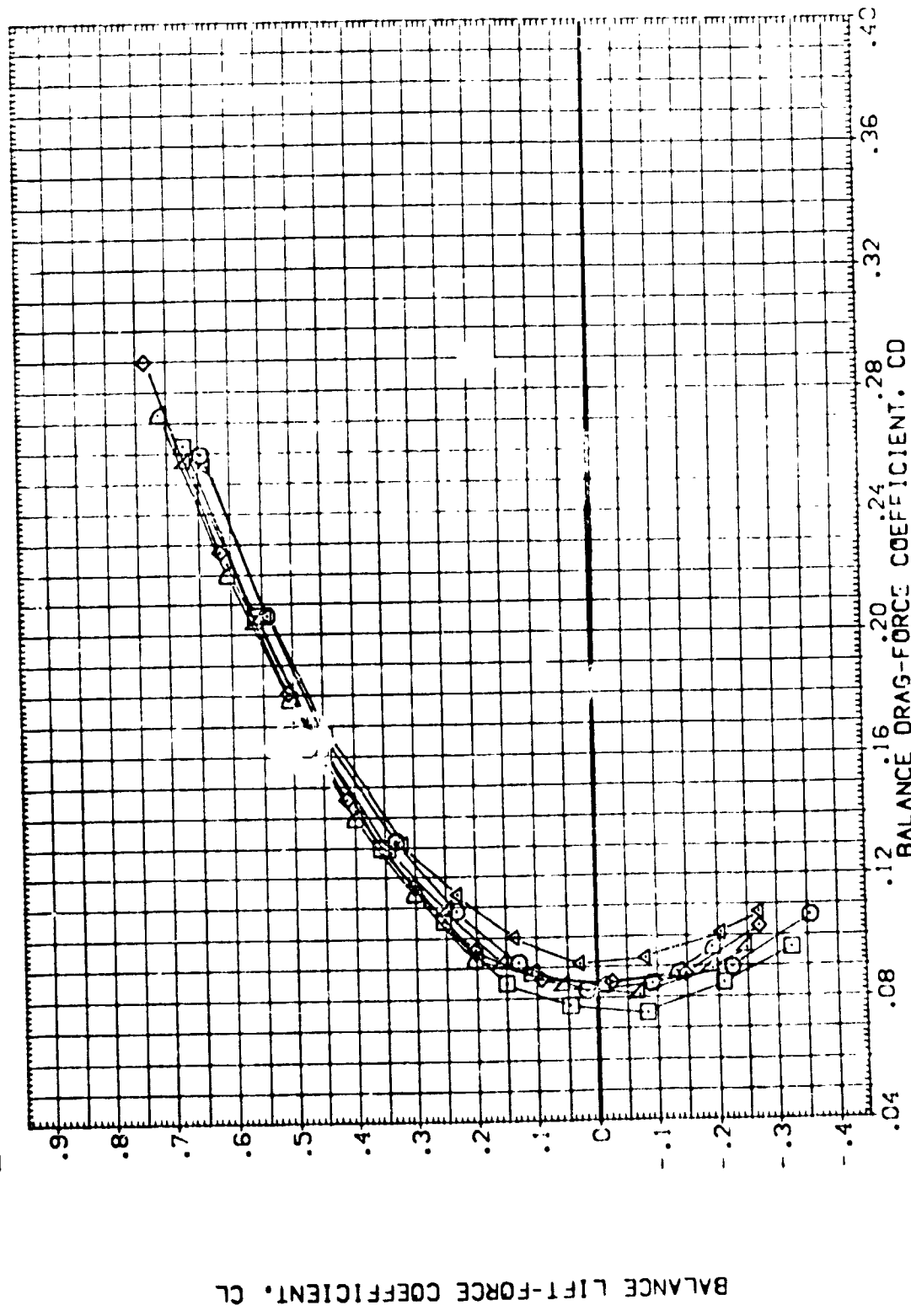


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(CER023) .90

DATA SET SYMBOL
 (C1R019)
 (C1R022)
 (C1R023)
 (C1R019)
 (C1R022)
 (C1R023)

CONFIGURATION DESCRIPTION
 ARC 66-709 OAS9 Q111A-N24
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 ARC 66-709 OAS9 Q111A-N24 (ADJUSTED FOR TARES)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

BETA
 .000
 .000
 .000
 .000
 .000
 .000

ELEVON
 .000
 .000
 .000
 .000
 .000
 .000

BOFLAP
 -11.700
 .000
 16.300
 -11.700
 .000
 16.300

REFERENCE INFORMATION
 SPREF .6053 SQ.FT.
 LREF .5925 FT.
 BRPF 1.1710 FT.
 XMRP 12.6735 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

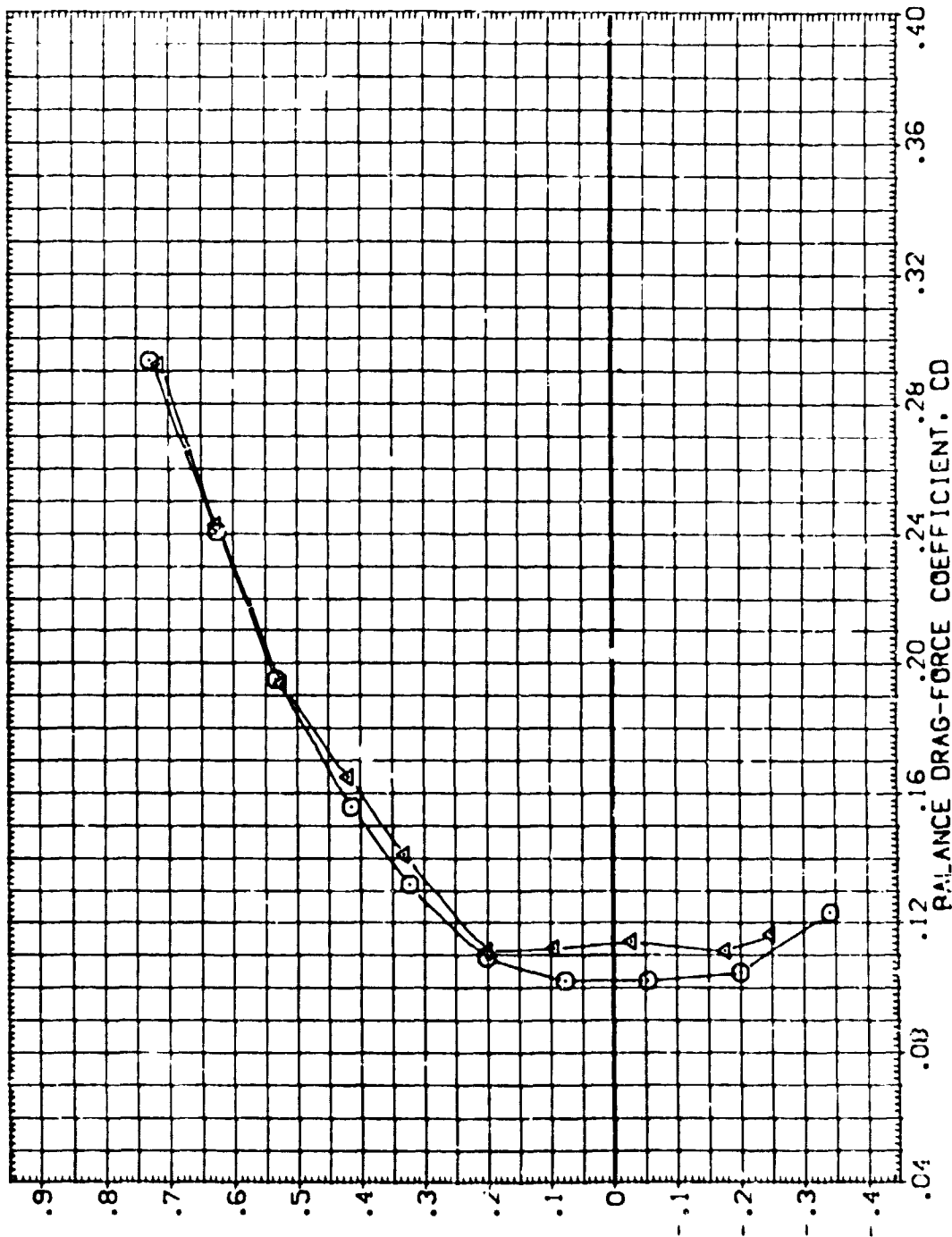


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C1MAC) .95

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(IER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(IER022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(IER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
		.200	.000		SCALE .0150

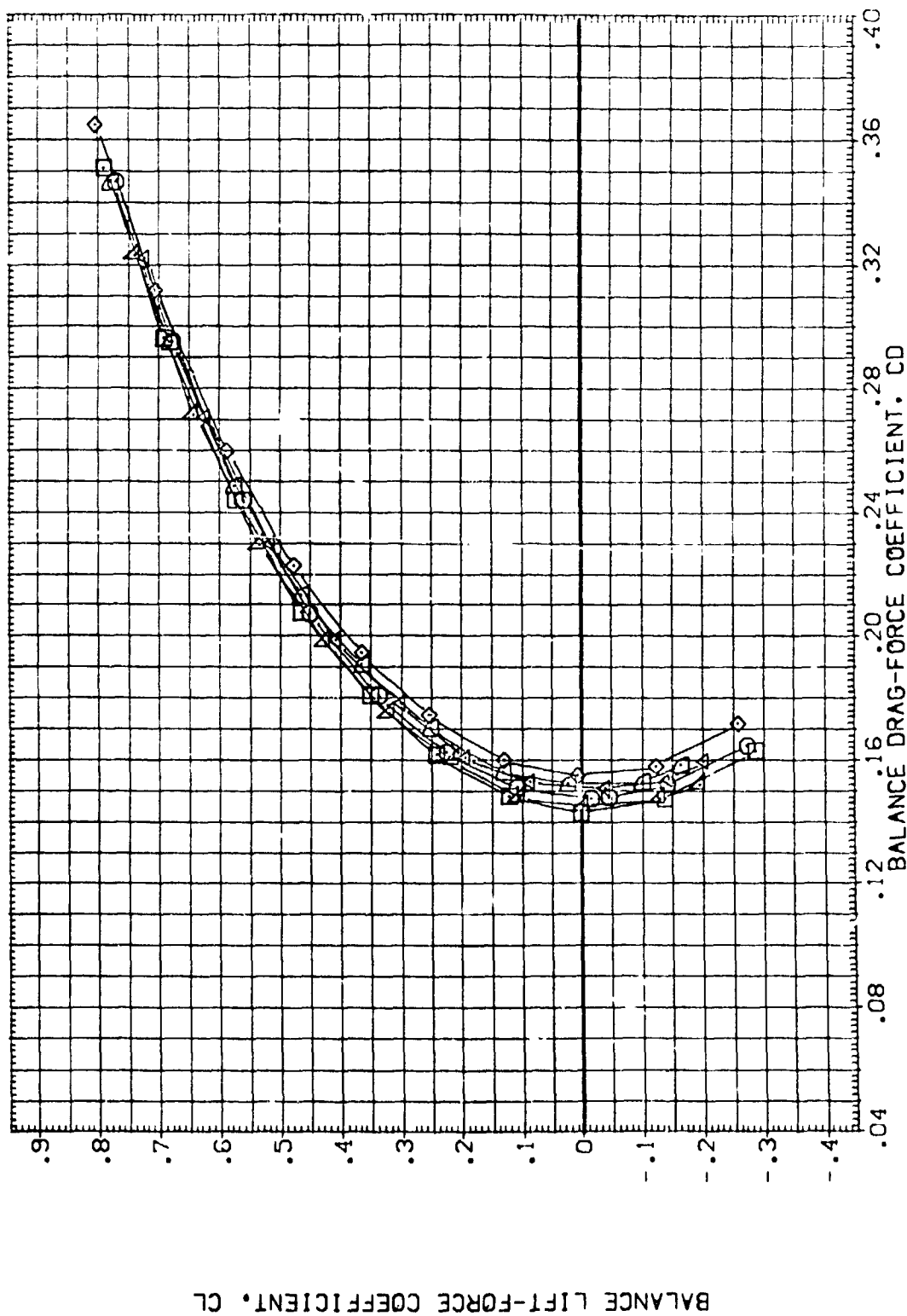


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SO.FT.
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	BREF 1.1710 FT.
(TER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(TER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(TER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

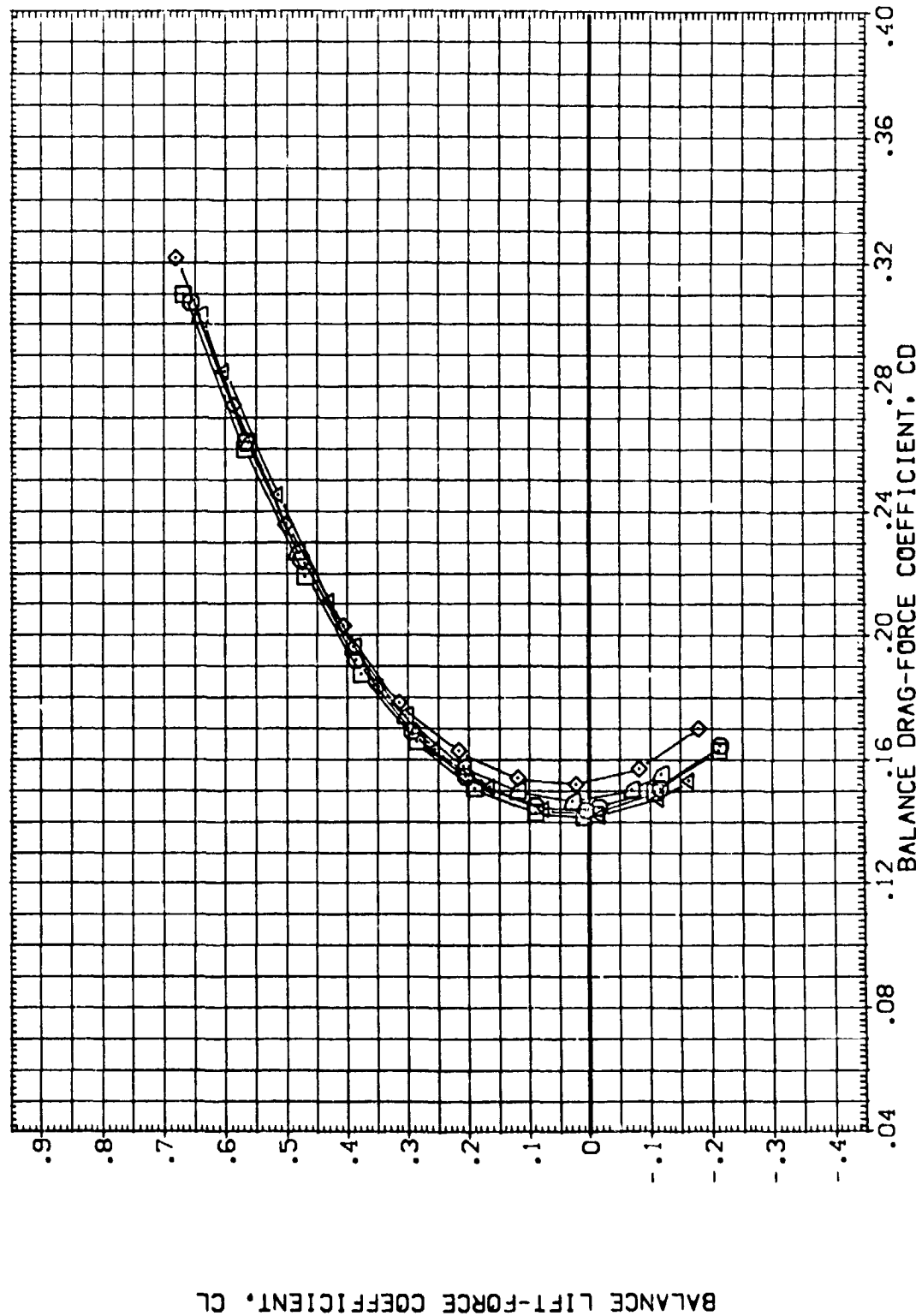


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(CER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(TER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6755 IN.
(TER022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(TER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE 0.150

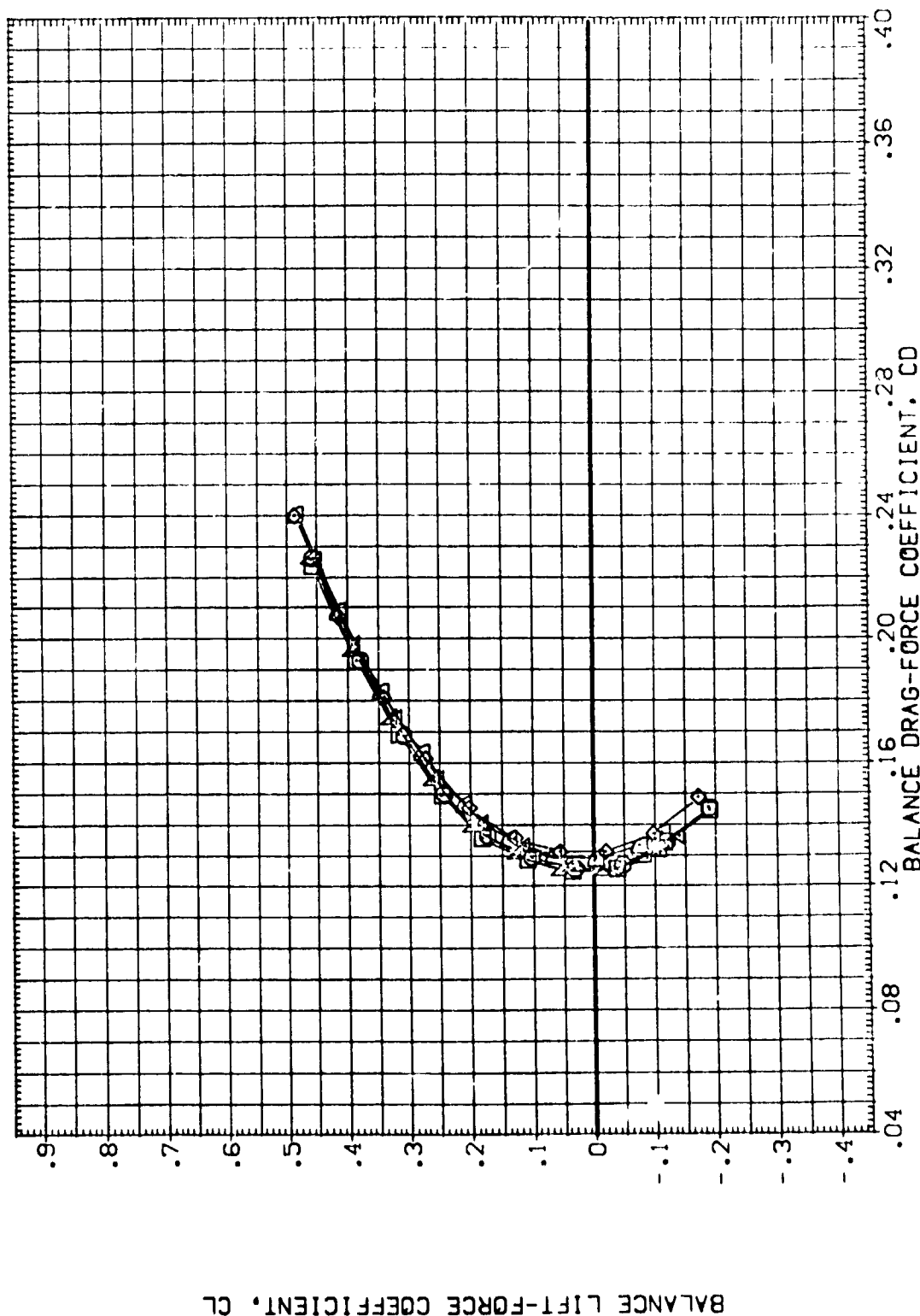


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(1)MACH = 2.00

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(GER019)	□	ARC 66-709	DA59 DA11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	○	ARC 66-709	DA59 DA11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	×	ARC 66-709	DA59 DA11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(ZER019)	△	ARC 66-709	DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6265 IN.
(ZER022)	◇	ARC 66-709	DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(ZER023)	▽	ARC 66-709	DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
							SCALE .0150

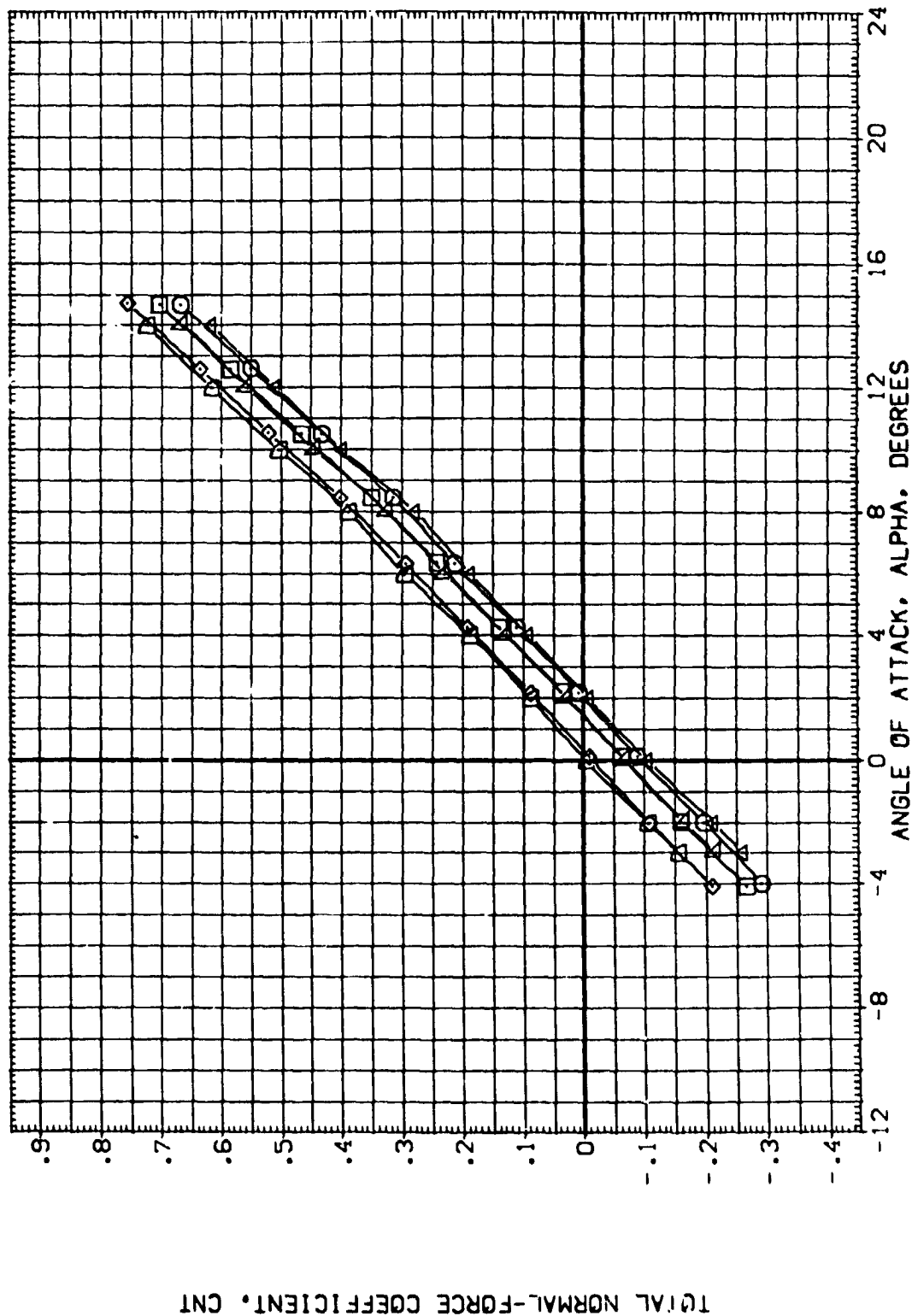


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GE019) DATA NOT AVAILABLE

(GE022) ARC 66-709 OAS9 DA11A-(N24)

(GE073) ARC 66-709 OAS9 DA11A-(N24)

(GE019) DATA NOT AVAILABLE

(GE022) DATA NOT AVAILABLE

(GE023) ARC 66-709 OAS9 DA11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

REFERENCE INFORMATION ON

SREF .6053 50. FT.

LREF .5935 50. FT.

BREF .11710 50. FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

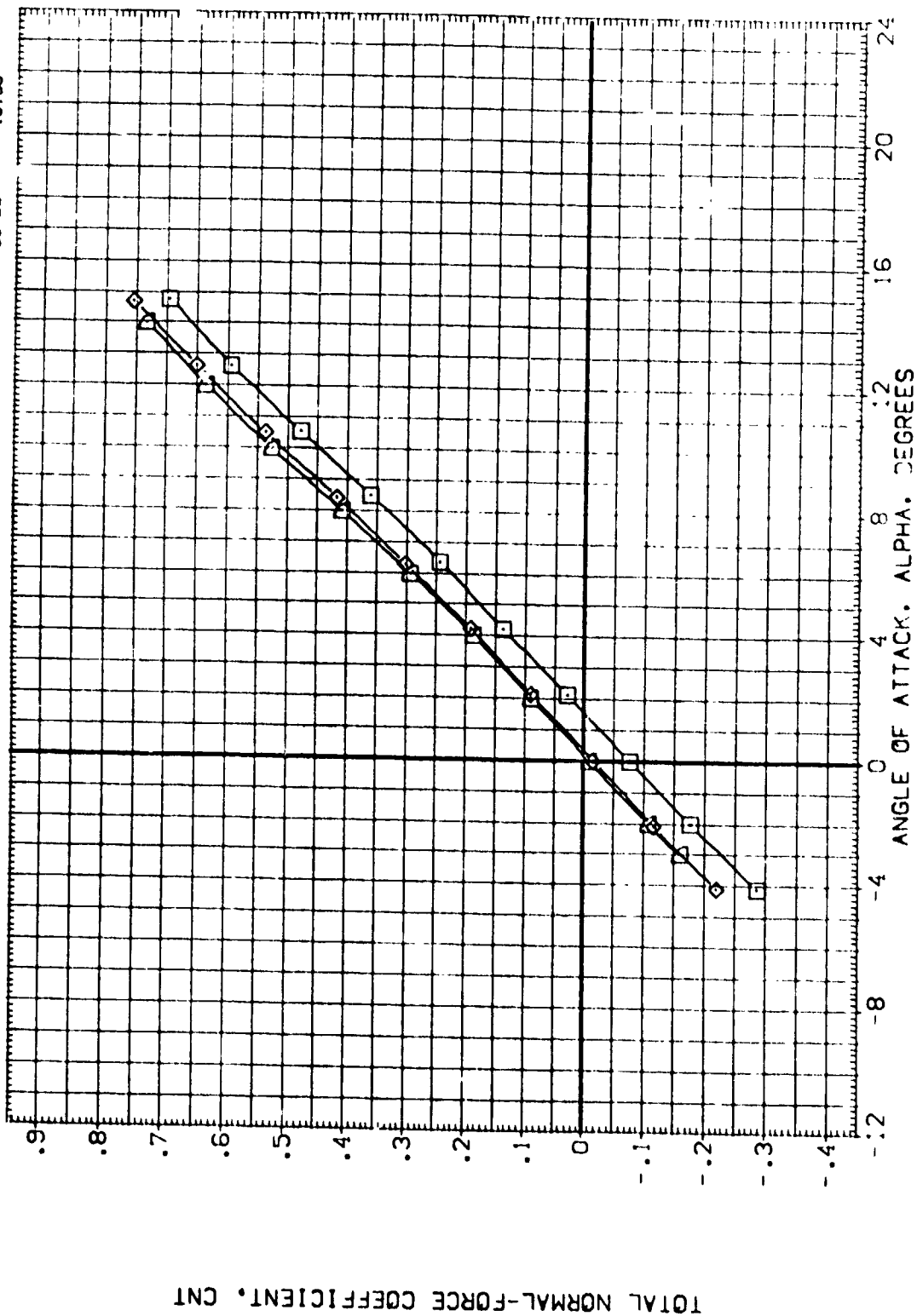


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(3) $MACH = .70$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GE R019)	ARC 66-709 QAS9 Q111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GE R022)	ARC 66-709 QAS9 Q111A-(N24)	.000	.000	.000	LREF .5935 FT.
(GE R023)	ARC 66-709 QAS9 Q111A-(N24)	.000	.000	-16.300	BREF 1.1710 FT.
(GE R019)	ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(GE R022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(GE R023)	ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

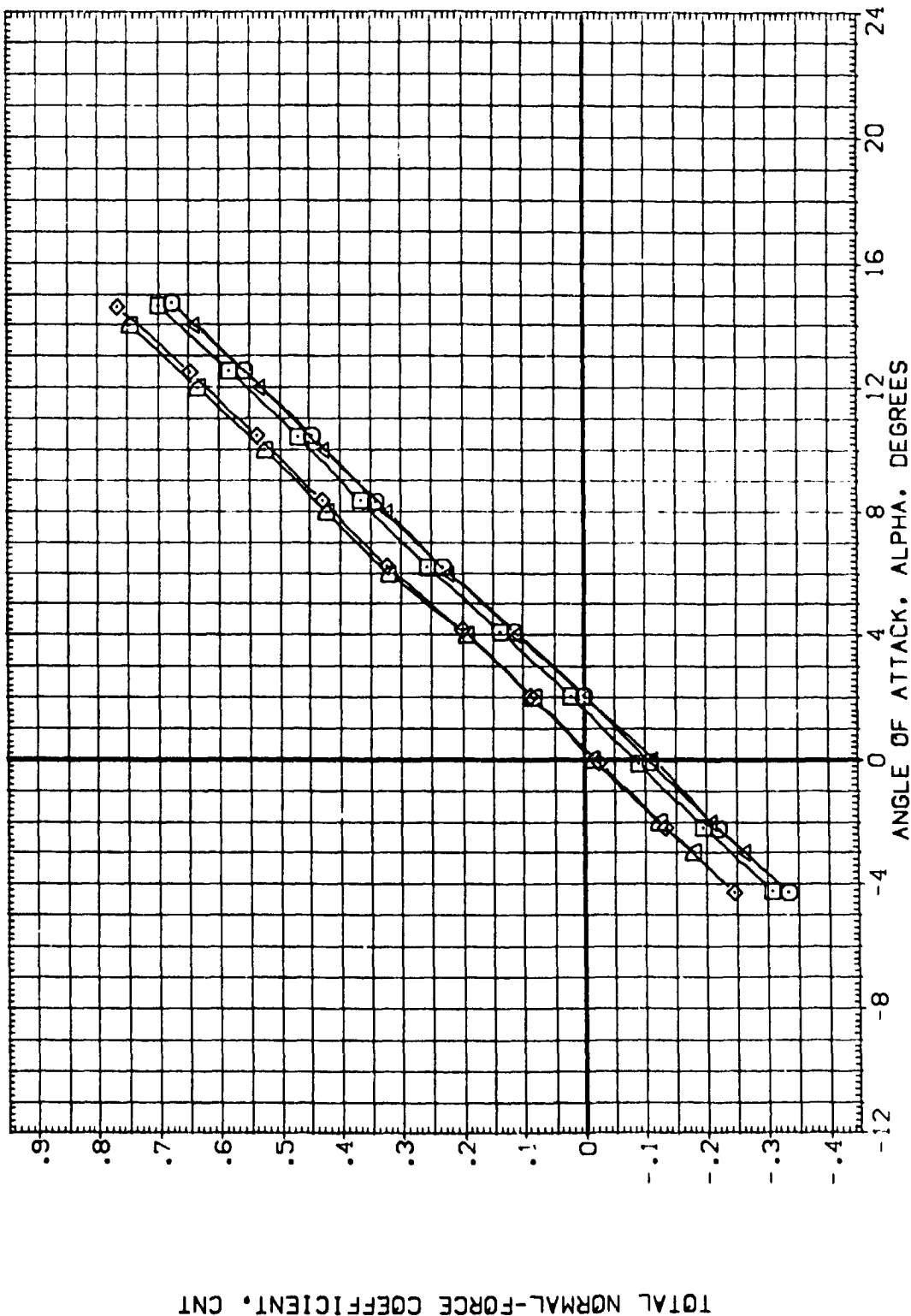


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C_MACH) = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	EDFLAP	REFERENCE INFORMATION
(06R019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(06R022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(06R023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 FT.
(06R019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(06R022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(06R023)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

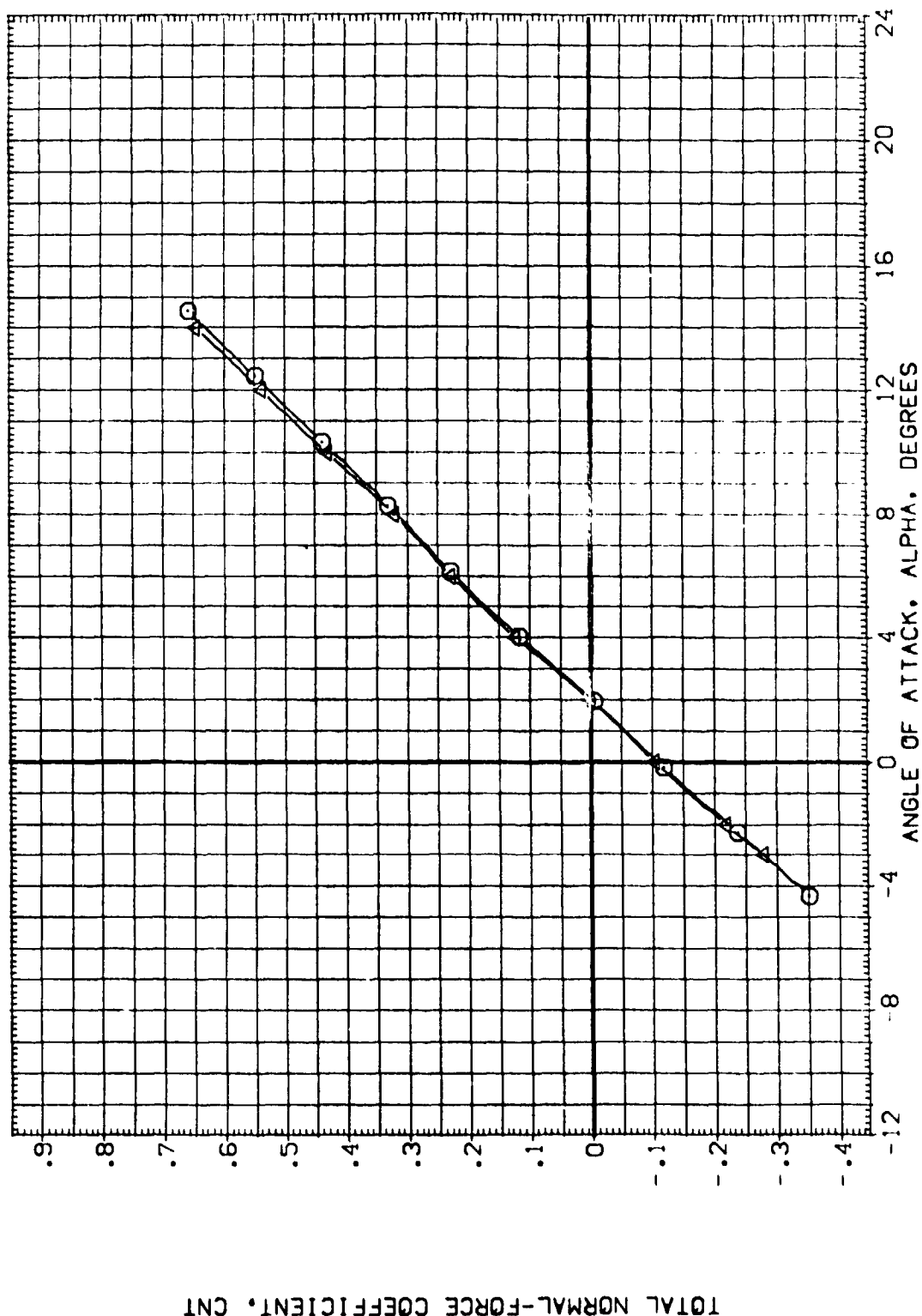


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(0)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BO-LAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	16.300	BREF 12.6255 IN.
(3ER019)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP .0000 IN.
(3ER022)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP -.3750 IN.
(3ER023)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	SCALE .0150

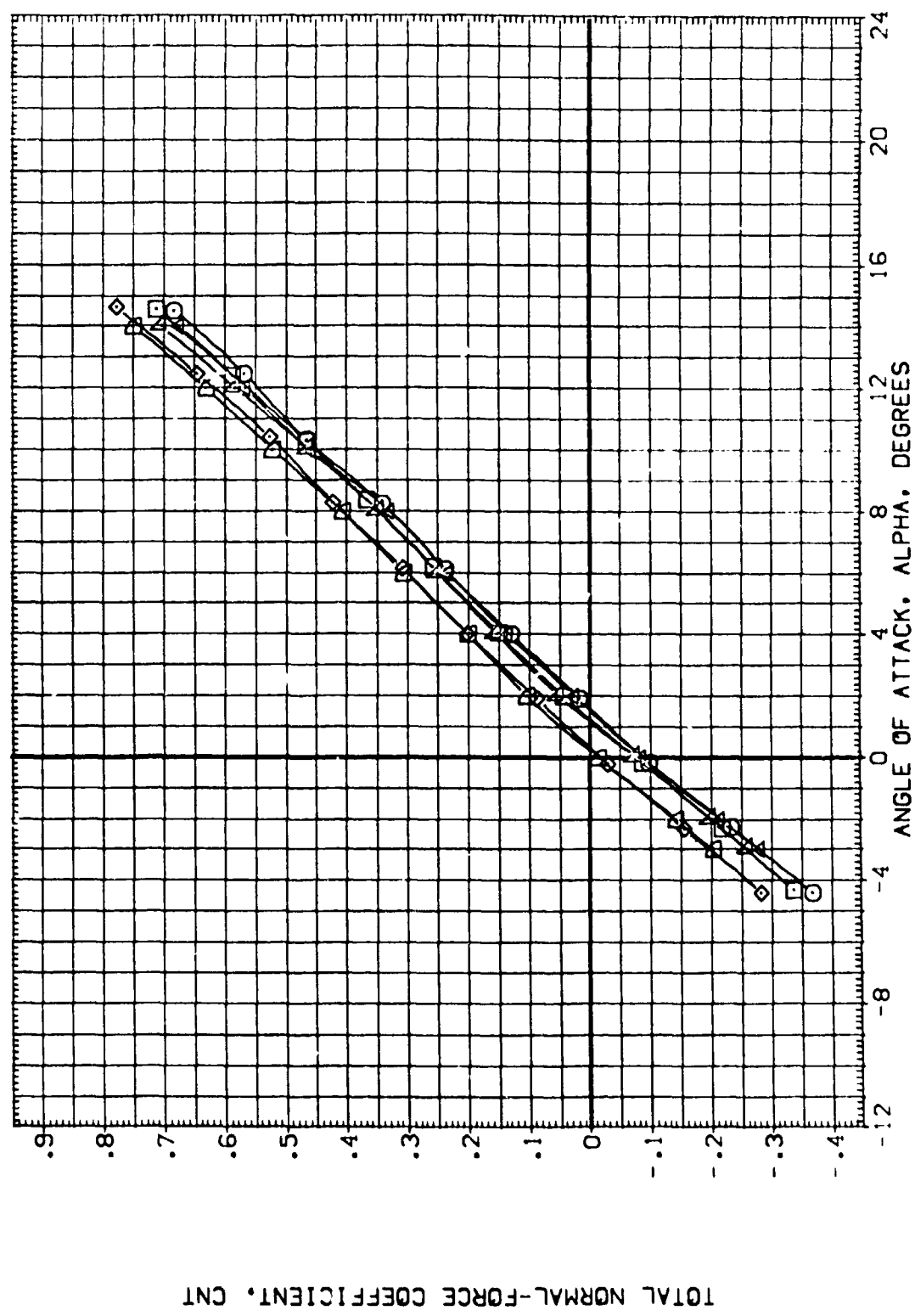


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(E)MACH .90

CONFIGURATION DESCRIPTION
ARC 66-709 0A59 0A11A-N24)
DATA NOT AVAILABLE
DATA NOT AVAILABLE
ARC 66-709 0A59 011A-N24 (A
DATA NOT AVAILABLE
DATA NOT AVAILABLE

BETA	ELEVON	BOFLAP
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300

REFERENCE INFORMATION	
SREF	.6053 SQ.FT.
LREF	.5935 FT.
BREF	1.1710 FT.
XMRP	12.6755 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0750

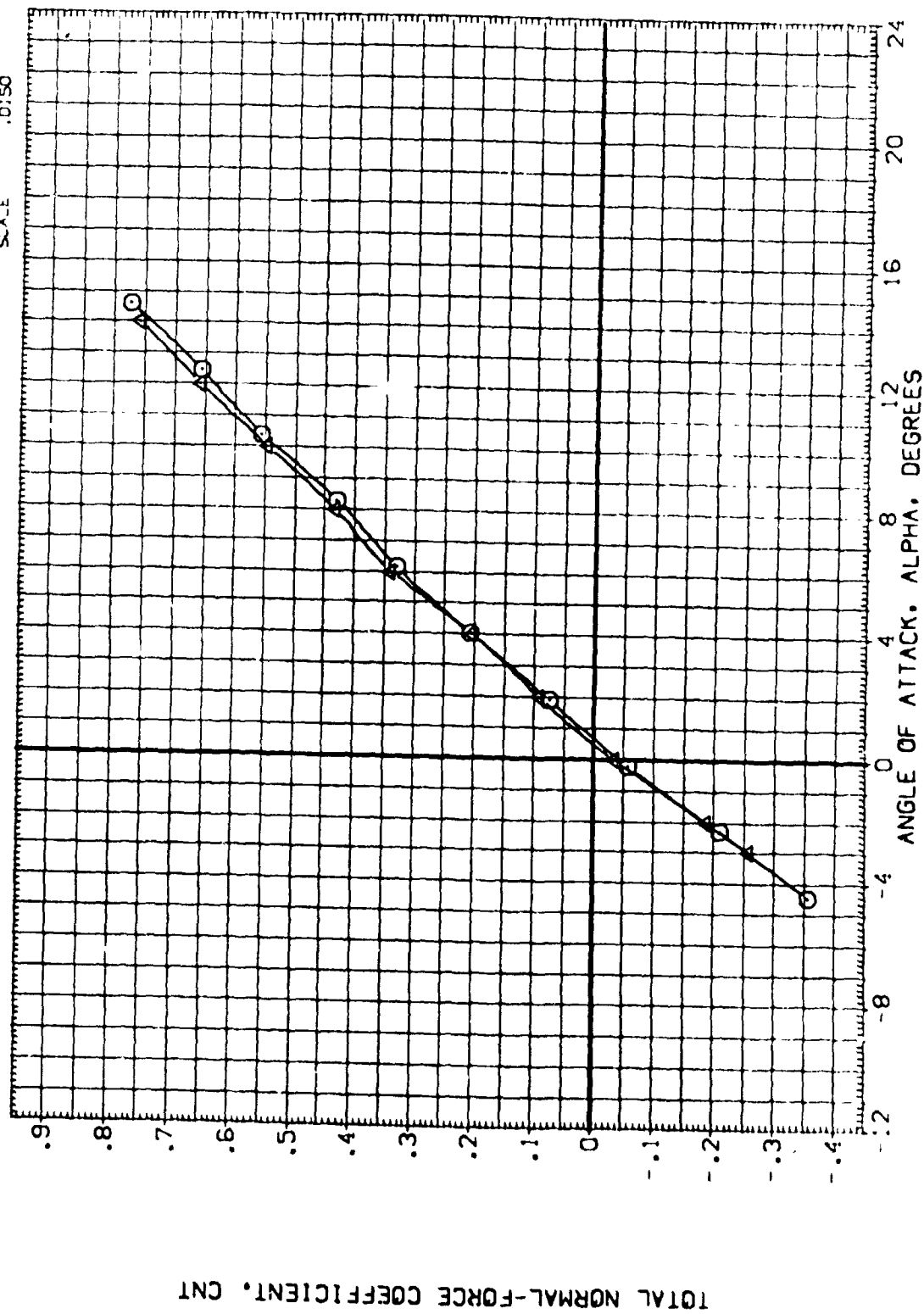


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

SECRET . . . 95

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6256	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA ELEVON BOFLAP

BETA	.000	ELEVON	.000	BOFLAP	-11.700
	.000		.000		.000
	.000		.000		16.300
	.000		.000		-11.700
	.000		.000		.000
	.000		.000		16.300

CONFIGURATION DESCRIPTION

ARC 66-709 QAS9	Q11A-(N24)
ARC 66-709 QAS9	Q11A-(N24)
ARC 66-709 QAS9	Q11A-(N24)
ARC 66-709 QAS9	Q11A-N24 (ADJUSTED FOR TARES)
ARC 66-709 QAS9	Q11A-N24 (ADJUSTED FOR TARES)
ARC 66-709 QAS9	Q11A-N24 (ADJUSTED FOR TARES)

DATA SET SYMBOL

(X R019)	
(X R022)	
(X R023)	
(X R019)	
(X R022)	
(X R023)	

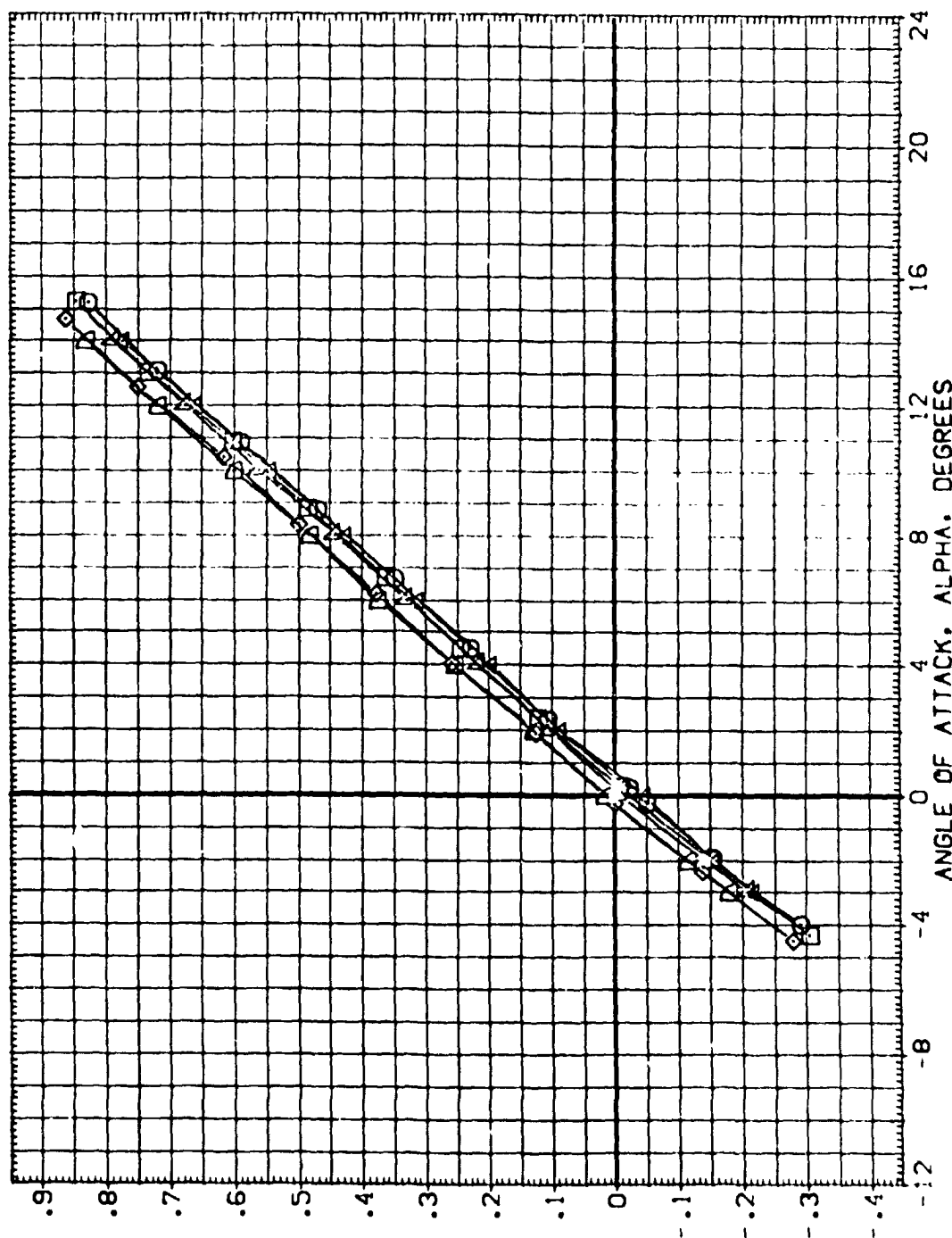


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MAC = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(GER022)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(GER019)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(GER022)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP .0000 IN.
(GER023)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	SCALE .0150

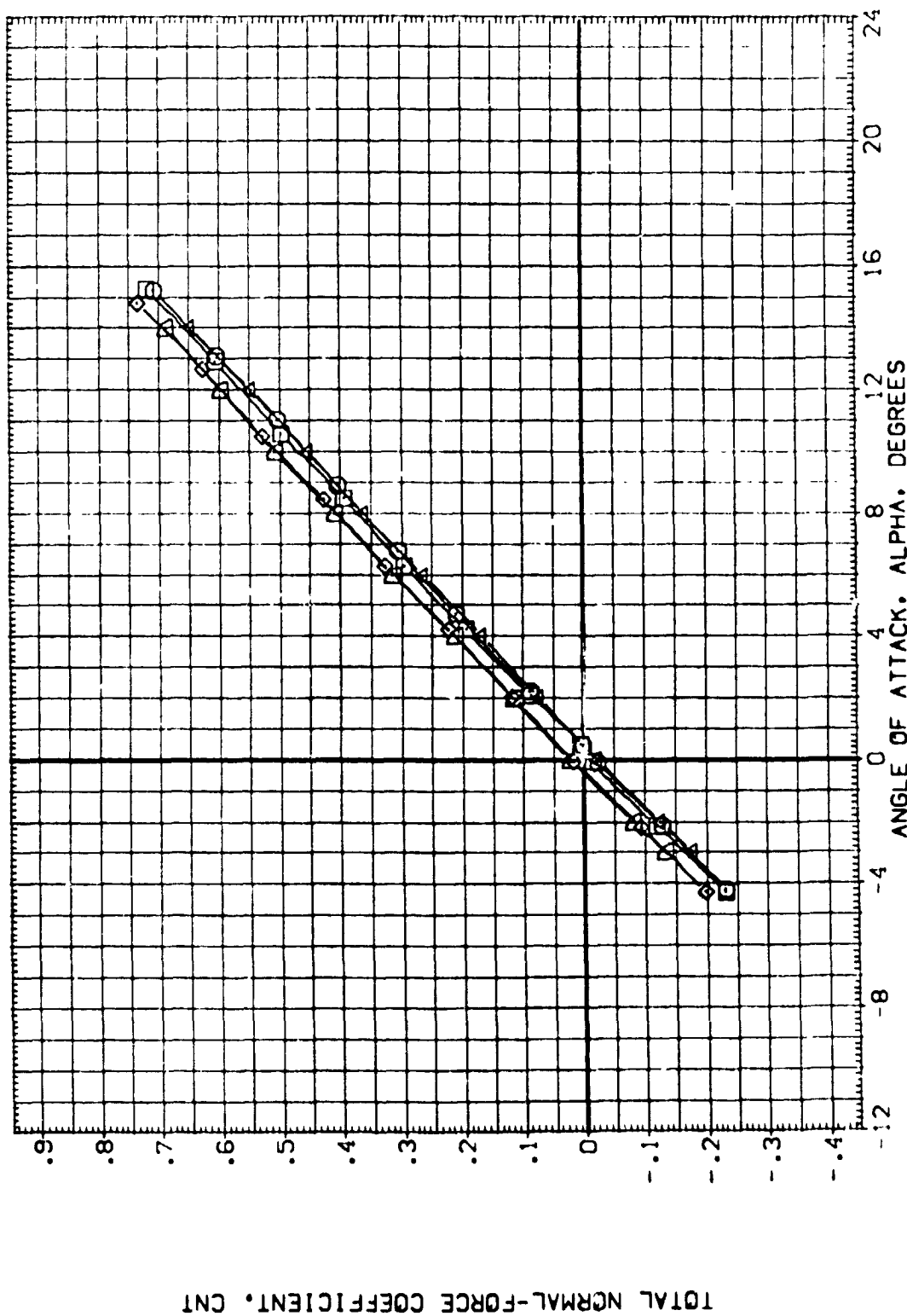


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GE R019]	ARC 66-709 DA59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
[GE R022]	ARC 66-709 DA59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
[GE R023]	ARC 66-709 DA59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
[3 R019]	ARC 66-709 DA59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
[3 R022]	ARC 66-709 DA59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
[3 R023]	ARC 66-709 DA59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

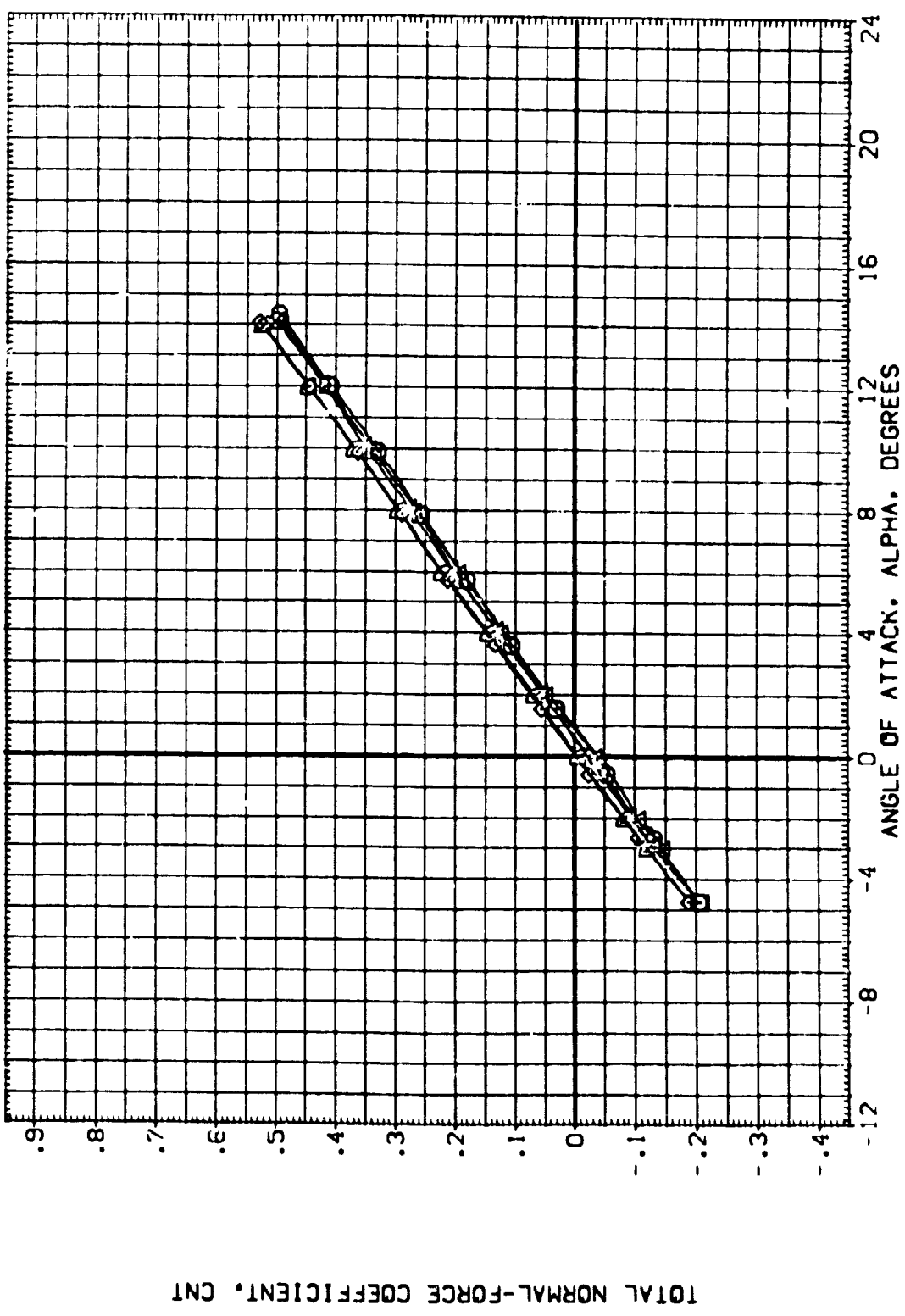


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(1)MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	ED FLAP	REFERENCE INFORMATION
(GER019)	ARC 66-708 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .5053 SQ. FT.
(GER022)	ARC 66-708 0A59 0A11A-(N24)	.000	.000	.000	LREF .5985 FT.
(GER023)	ARC 66-708 0A59 0A11A-(N24)	.000	.000	.000	BREF 1.1710 FT.
(JER019)	ARC 66-708 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6295 IN.
(JER022)	ARC 66-708 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(JER023)	ARC 66-708 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP -.3750 IN.
				16.300	SCALE 0.150

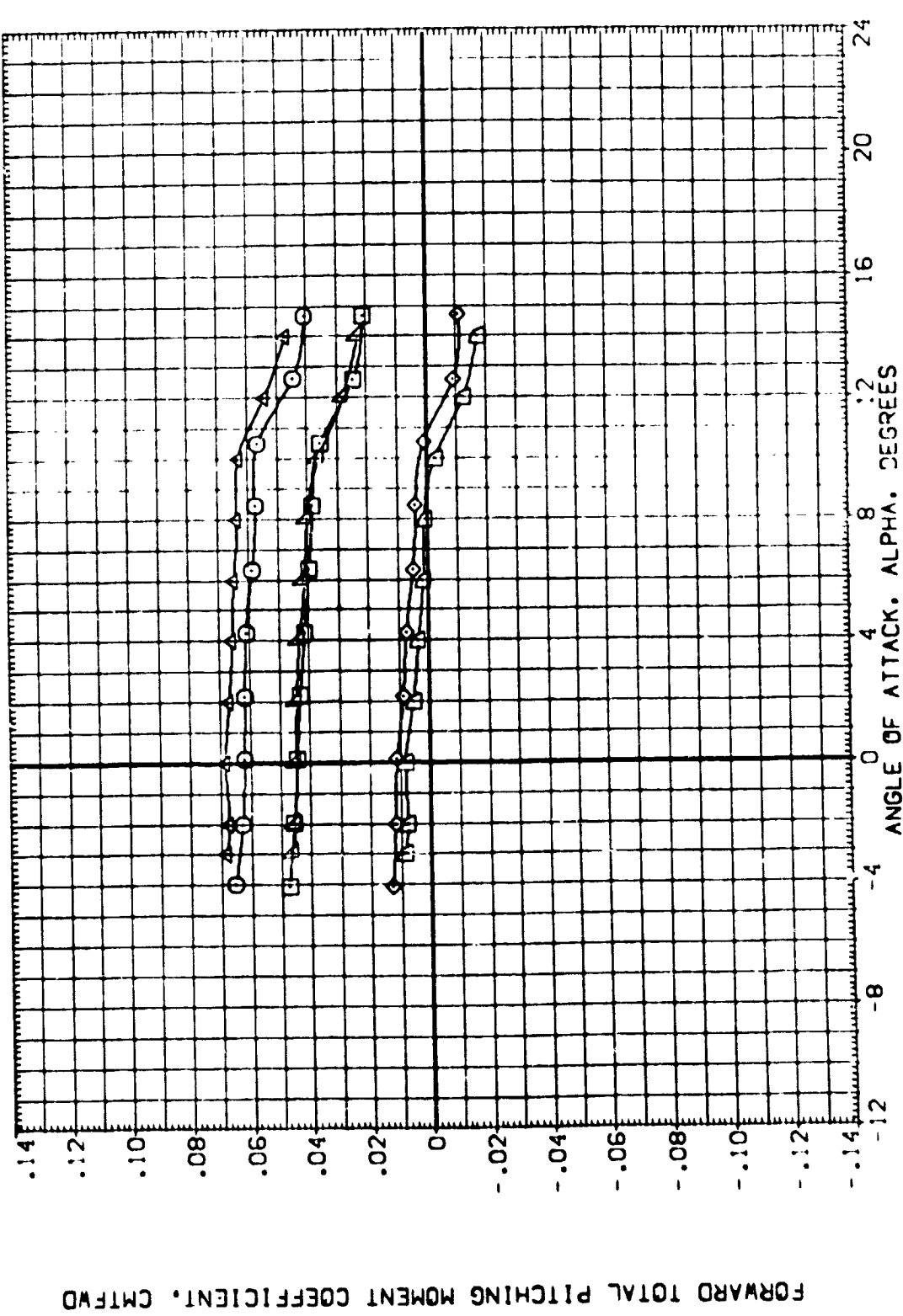


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

REFERENCE INFORMATION:
 STREF .6053 50.1 T.
 LREF .5935 FT.
 BRFF 1.1710 IN.
 YMRP 12.6255 IN.
 ZMRP .0000 IN.
 SCALE -.3750 IN.
 .0150

BETA ELEVON BODY LAP
 .000 .000 .000
 .000 .000 .000
 .000 .000 .000
 .000 .000 .000
 .000 .000 .000
 .000 .000 .000
 .000 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GE RO19) DATA NOT AVAILABLE
 (GE RO22) ARC 66-709 D459 D11A-(N24)
 (GE RO23) ARC 66-709 D459 D11A-(N24)
 (GE RO19) DATA NOT AVAILABLE
 (GE RO22) DATA NOT AVAILABLE
 (GE RO23) ARC 66-709 D459 D11A-N24 (ADJUSTED FOR TARES)

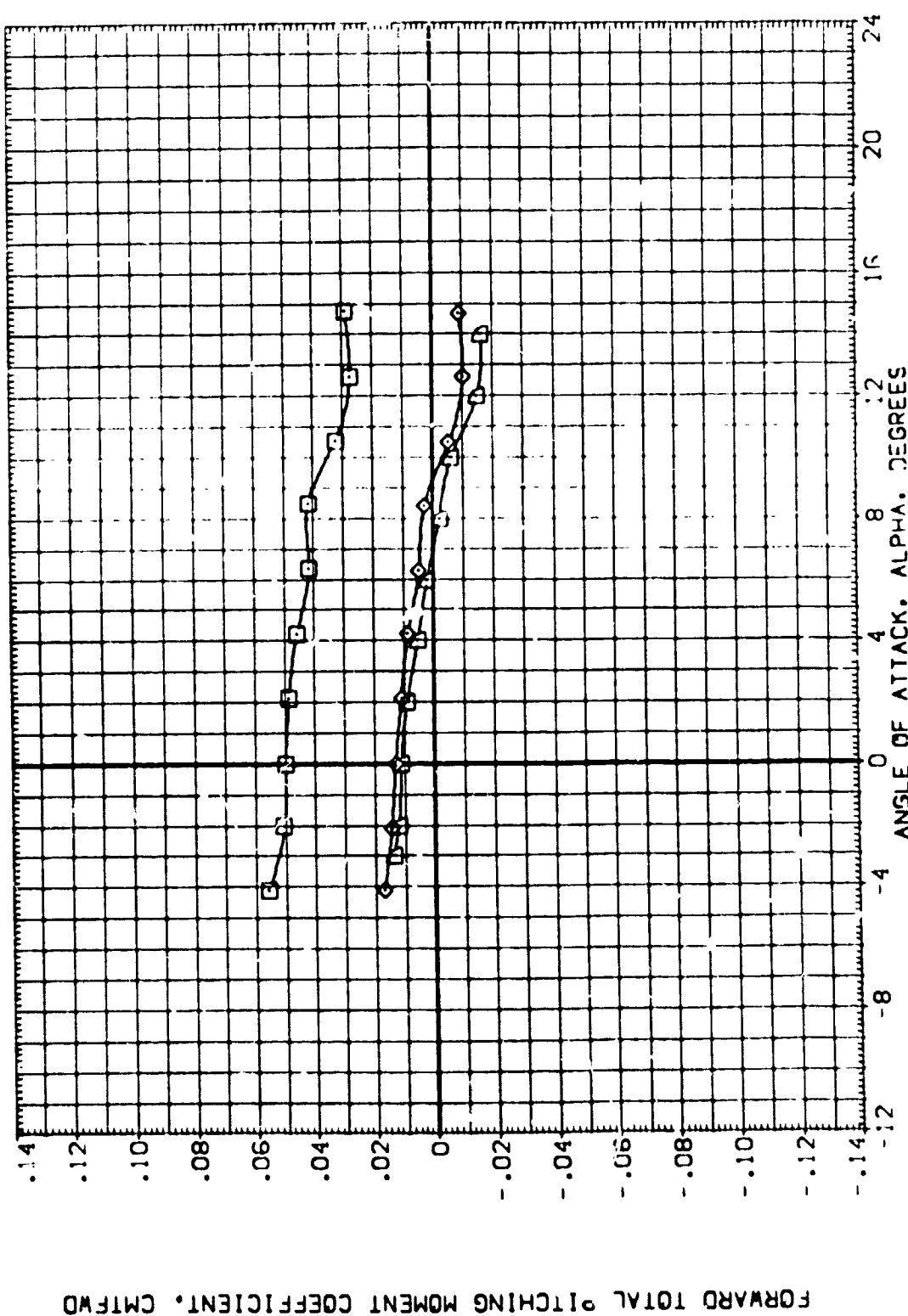


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER019) ARC 66-709 DASS D11A-(N24)

(GER022) ARC 66-709 DASS D11A-(N24)

(GER023) ARC 66-709 DASS D11A-(N24)

(GER019) ARC 66-709 DASS D11A-(N24) (ADJUSTED FOR TARES)

(GER022) DATA NOT AVAILABLE

(GER023) ARC 66-709 DASS D11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

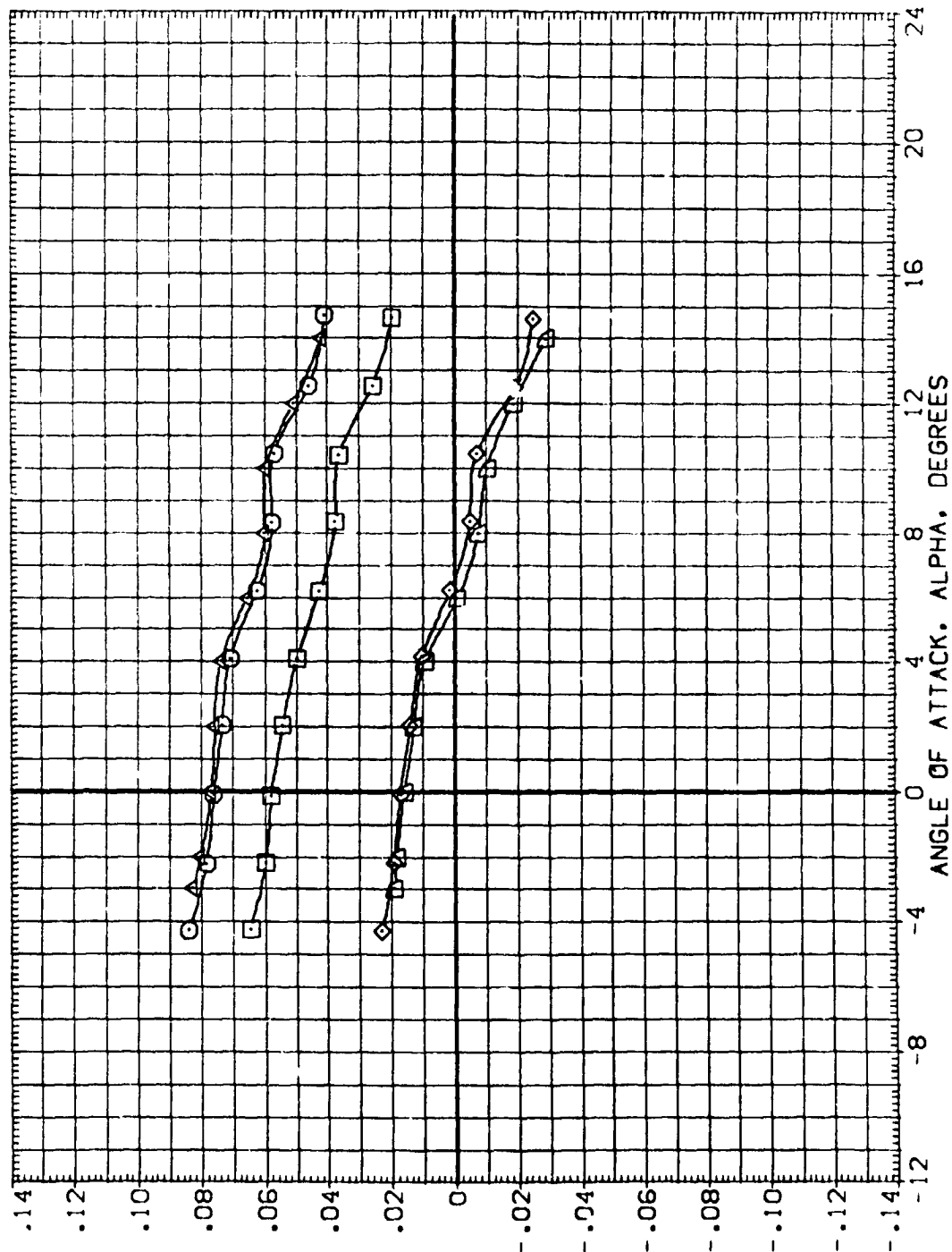


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MAC = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOF/AP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(GER022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(GER023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 IN.
(GER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(GER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(GER023)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

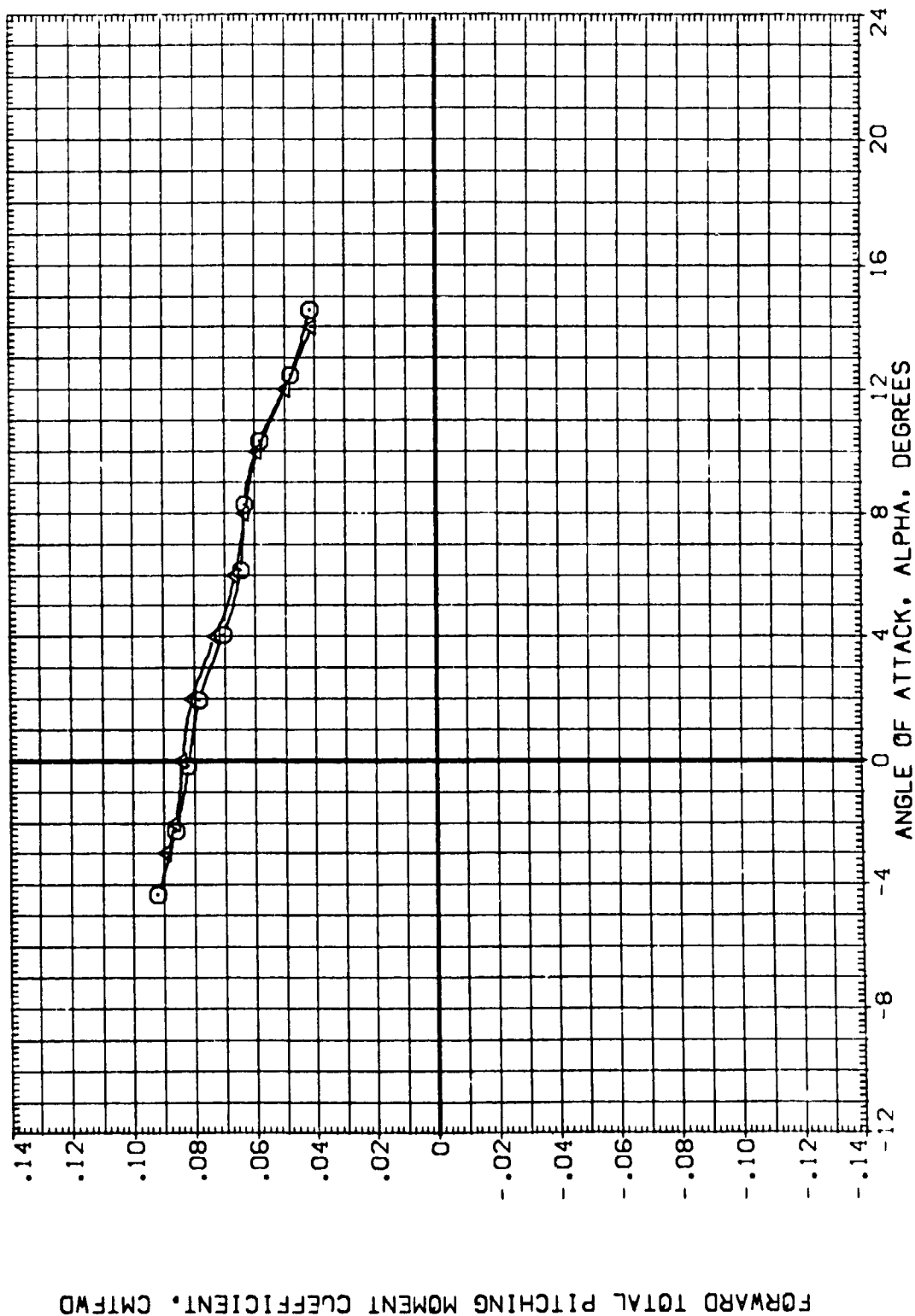
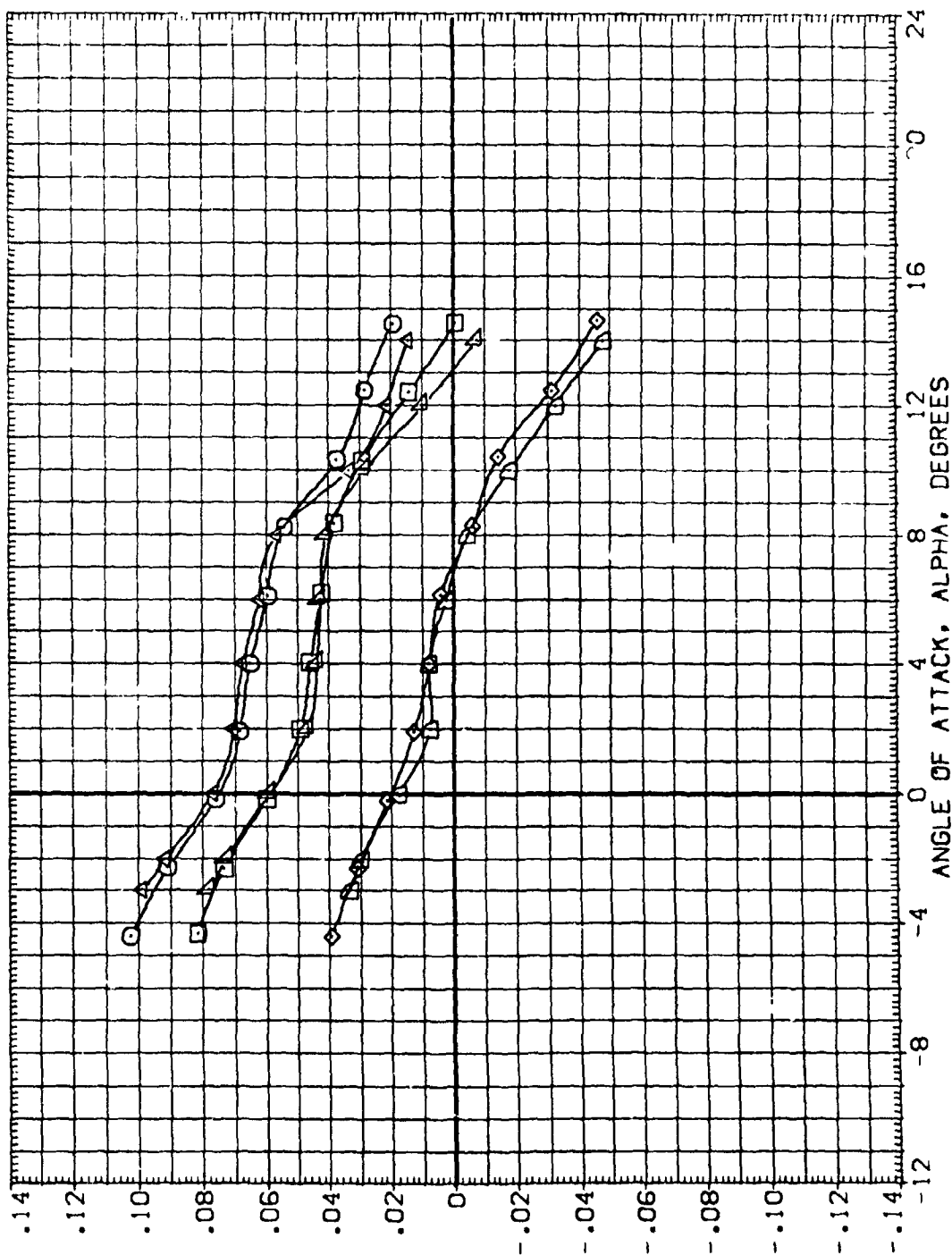


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(O)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(GER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(3-RO19)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(3-RO22)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP -.3750 IN.
(3-RO23)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP .0150
					SCALE



FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMFWD

FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(E)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(36R019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(36R022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(36R023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 IN.
(36R019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(36R022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(36R023)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMTFWD

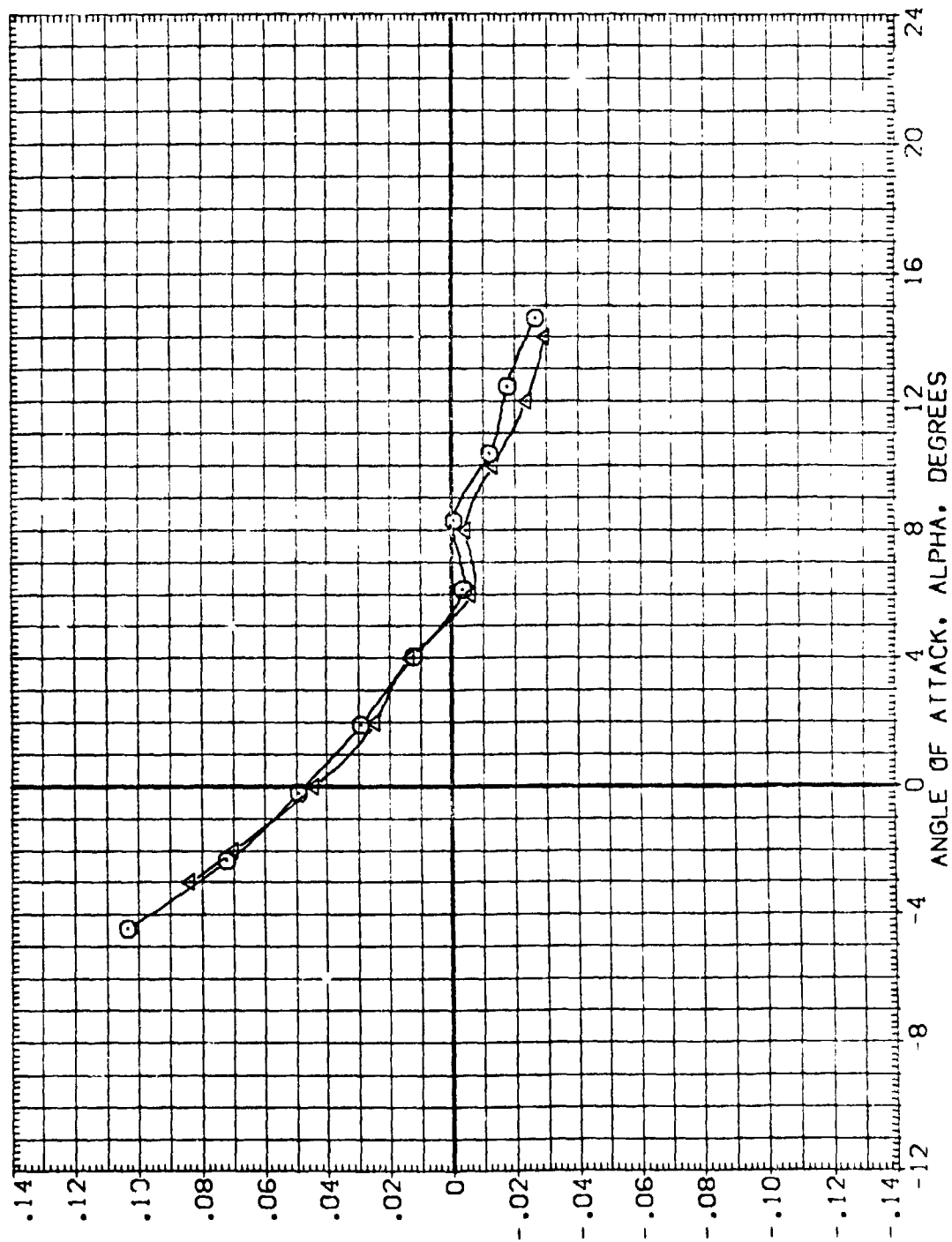


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(FMACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 50. FT.
(GER022)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	.000	BREF 1.1710 FT.
(XER019)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMPP 12.6255 IN.
(XER022)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP .0000 IN.
(XER023)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	SCALE .0150

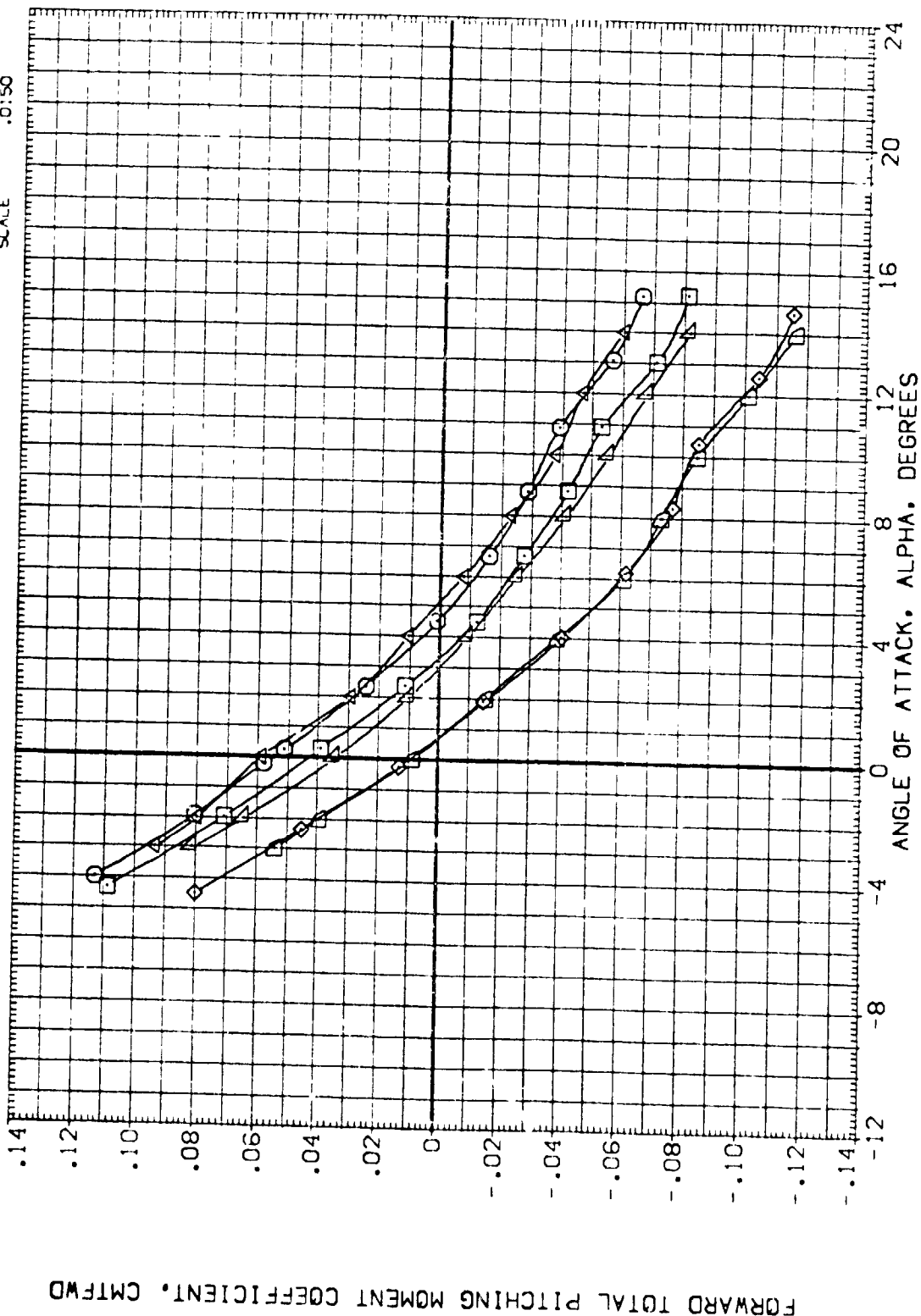


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MAC = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(GER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(3ER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(3ER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(3ER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

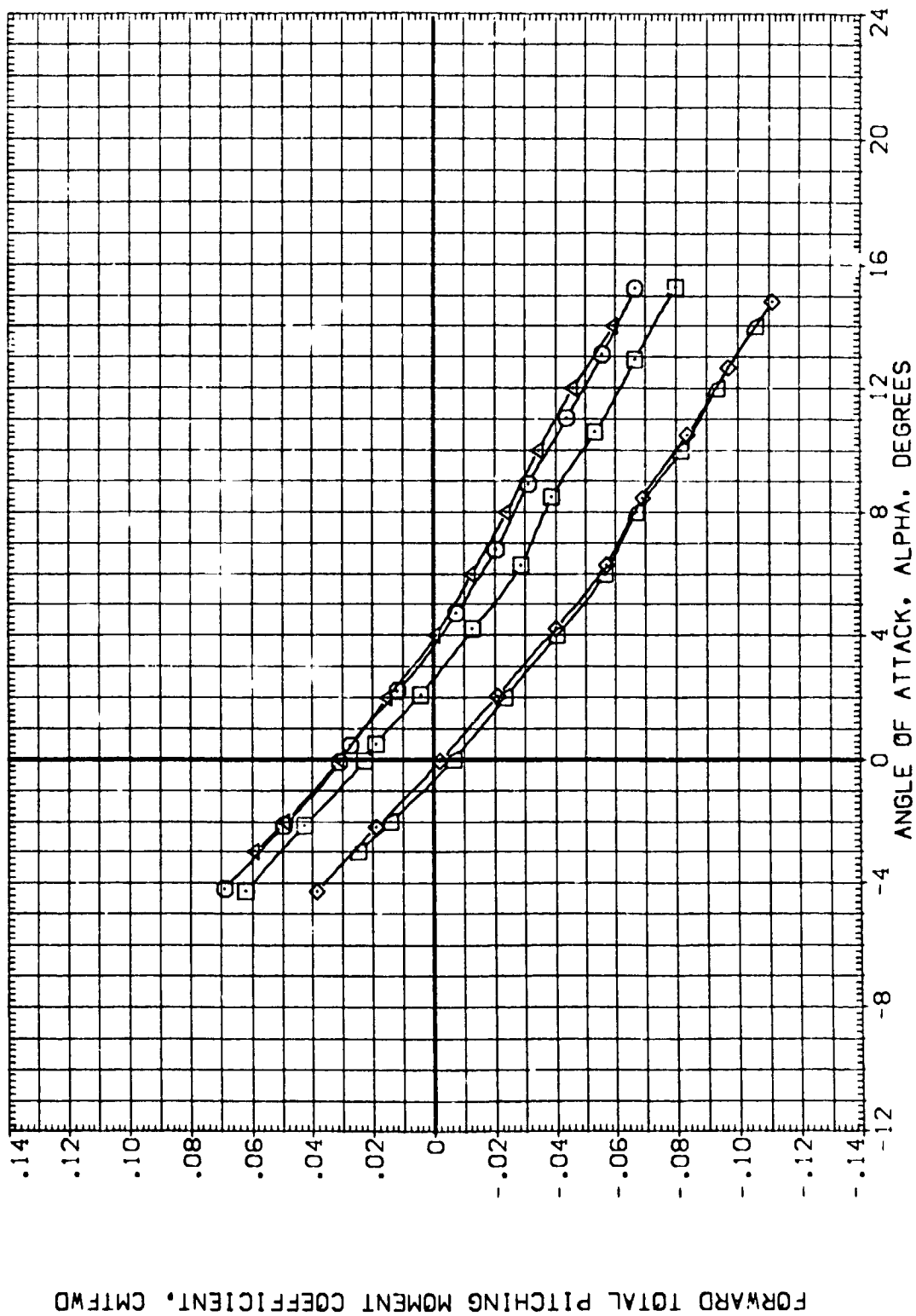


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(M)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(GE RO19)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50 FT.
(GE RO22)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GE RO23)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT. IN.
(GE RO19)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6235 IN.
(GE RO22)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(GE RO23)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

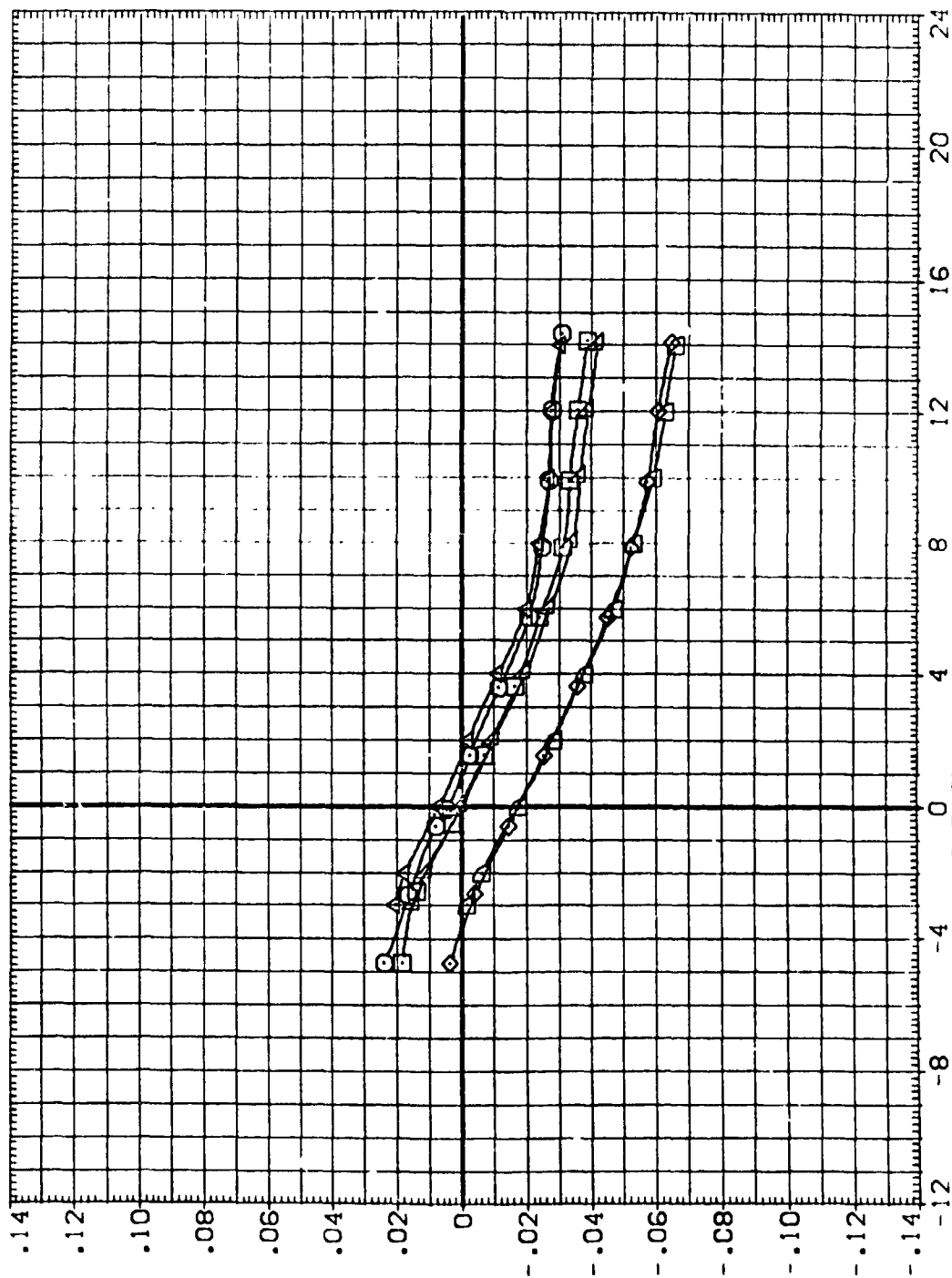


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

[1]MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BODY LAP REFERENCE INFORMATION

(GER019) ARC 66-709 0A59 0A11A-(N24) .000 .000 -11.700 SREF .6053 SQ.FT.

(GER022) ARC 66-709 0A59 0A11A-(N24) .000 .000 .000 LREF .5935 FT.

(GER023) ARC 66-709 0A59 0A11A-(N24) .000 .000 16.300 BRREF 1.1710 IN.

(3ER019) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES) .000 .000 -11.700 XMRP 12.6255 IN.

(3ER022) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES) .000 .000 .000 YMRP .0000 IN.

(3ER023) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES) .000 .000 16.300 ZMRP -.3750 IN.

SCALE

.0150

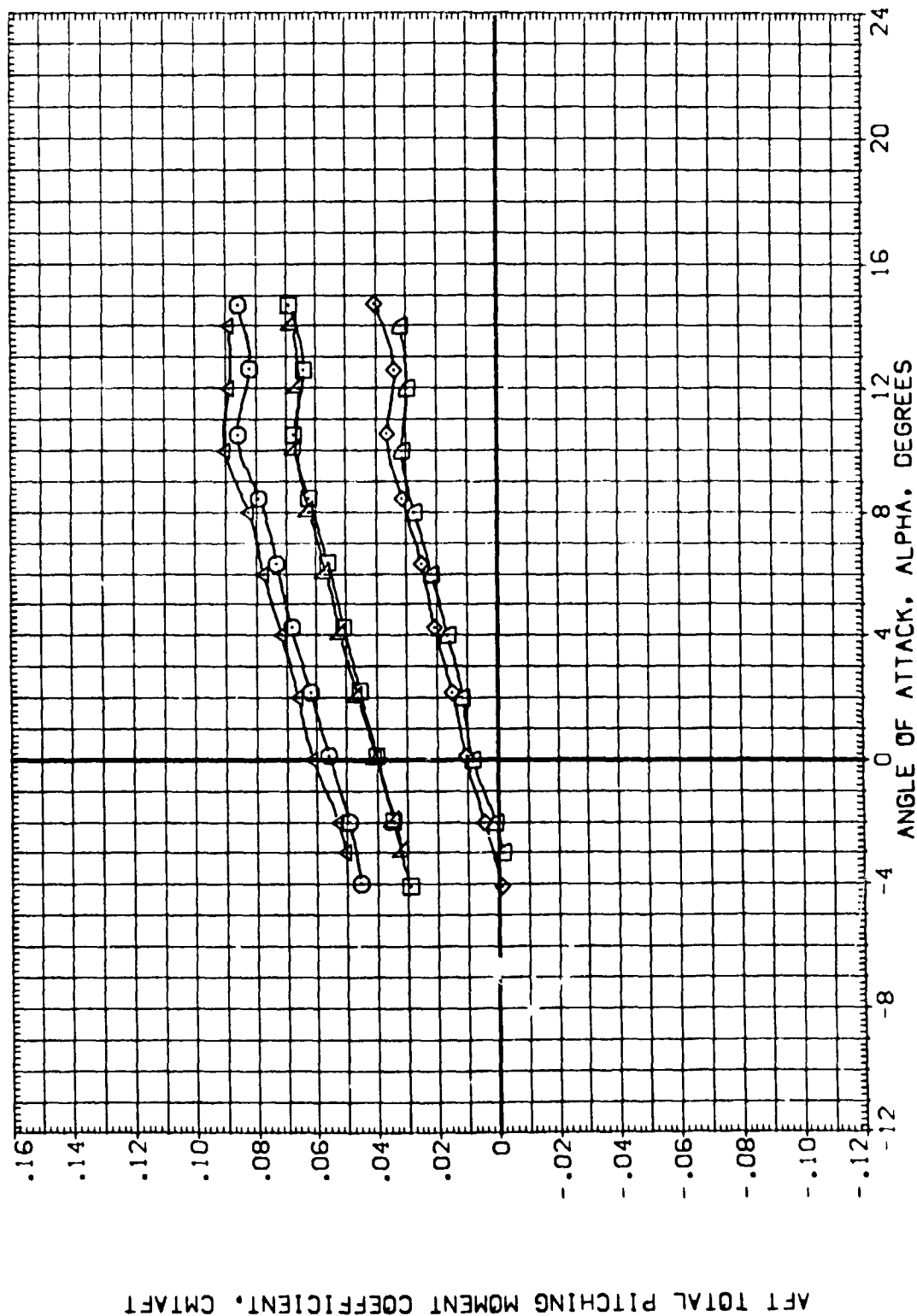


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER019) DATA NOT AVAILABLE

(GER072) ARC 66-709 D459 D411A-(N24)

(GER073) ARC 66-709 D459 D411A-(N24)

(XER019) DATA NOT AVAILABLE

(XER022) DATA NOT AVAILABLE

(XER023) ARC 66-709 D459 D411A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

REFERENCE INFORMATION

SREF 6053 SQ.FT.

LREF 5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -3.750 IN.

SCALE .0150

AFT TOTAL PITCHING MOMENT COEFFICIENT, CMIAFT

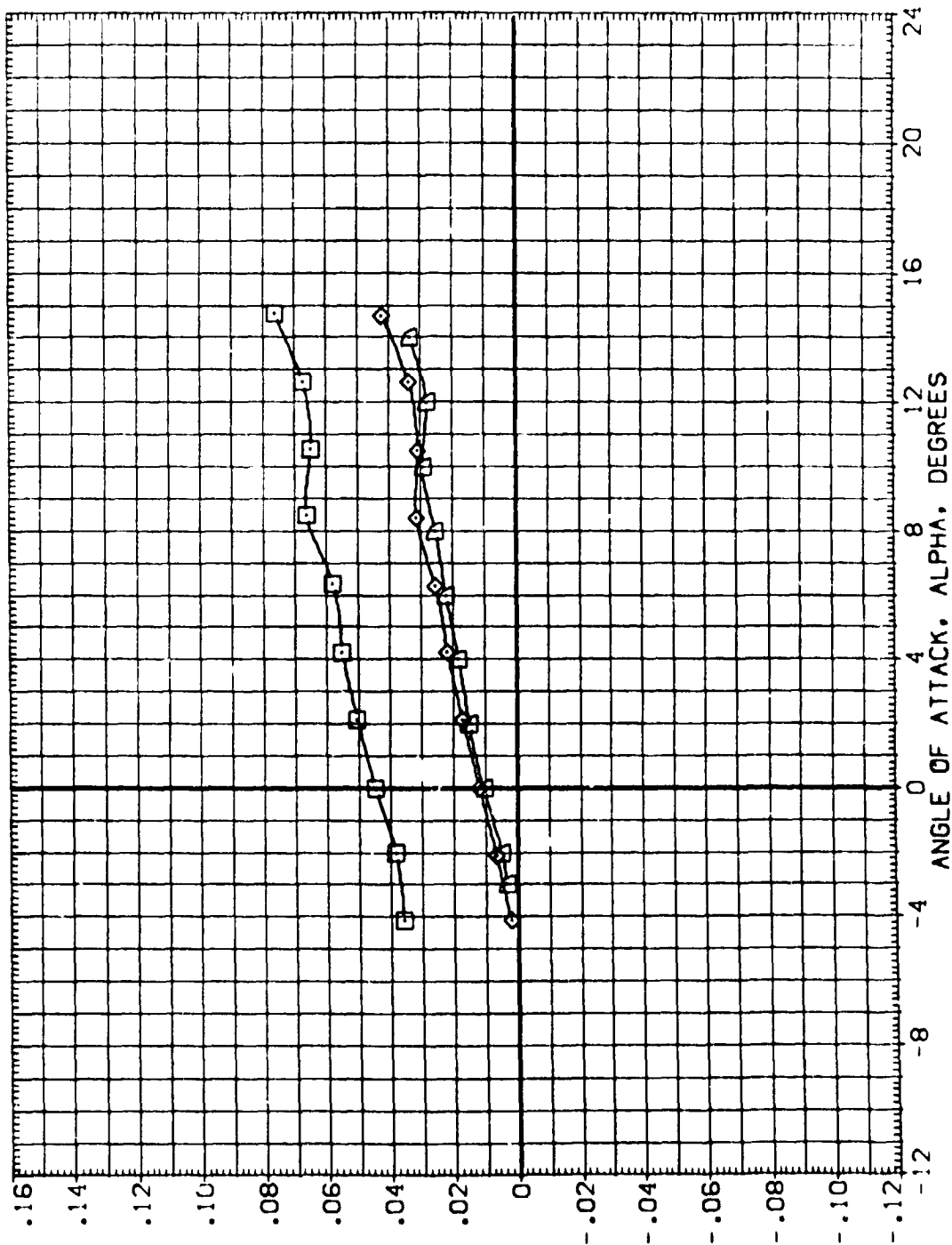


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVATION	BOFLAP	REFERENCE INFORMATION
(GE019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GE022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GE023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(GE019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(GE022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(GE023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

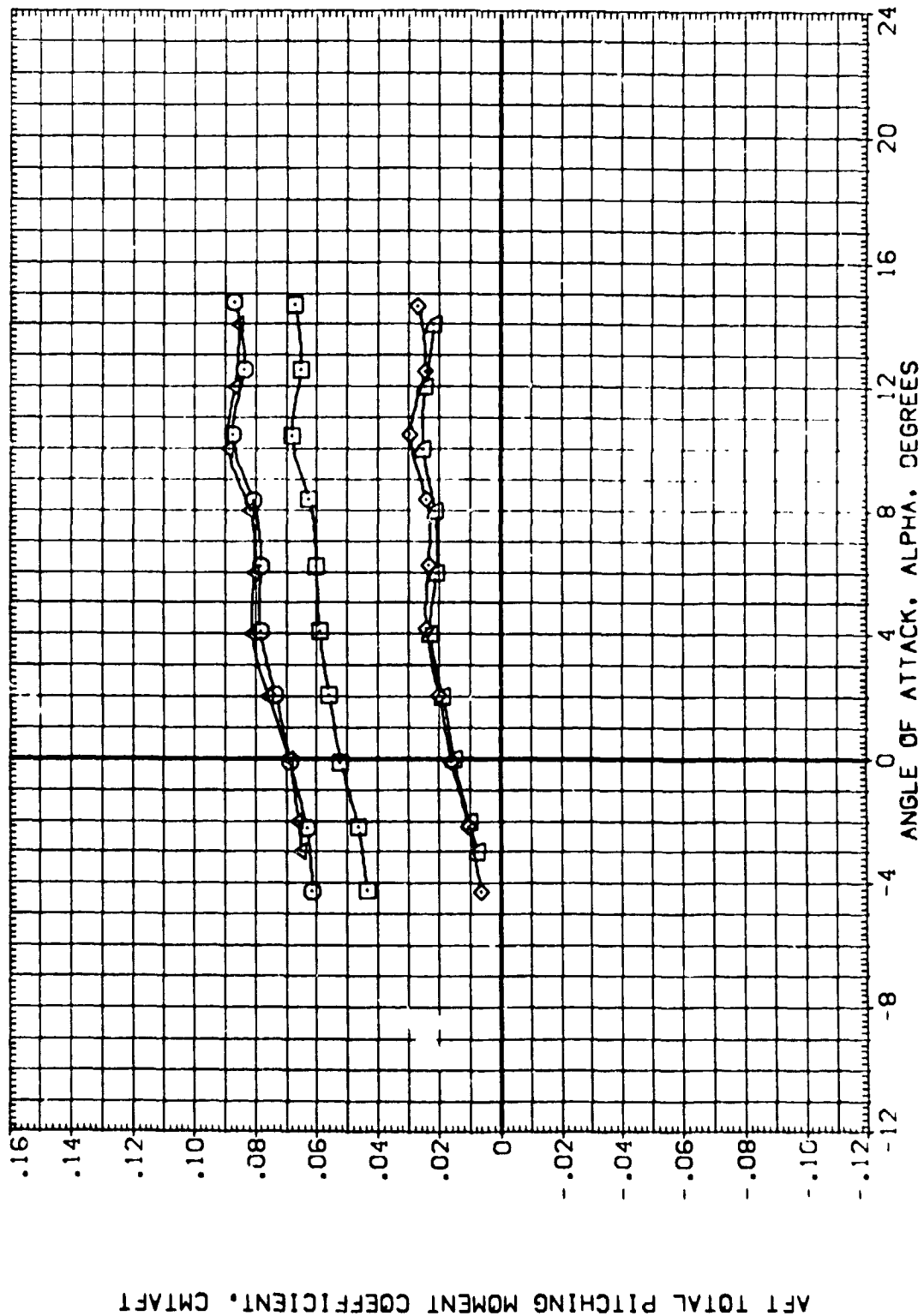


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 QAS9 Q111A-N24	.000	.000	-11.700	SREF .5053 SQ.Ft.
(GER022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 Ft.
(GER023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 IN.
(GER019)	ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XHRP 12.6255 IN.
(GER022)	DATA NOT AVAILABLE	.000	.000	.000	YHRP .0000 IN.
(GER023)	DATA NOT AVAILABLE	.000	.000	16.300	ZHRP -.3750 IN.
					SCALE .0150

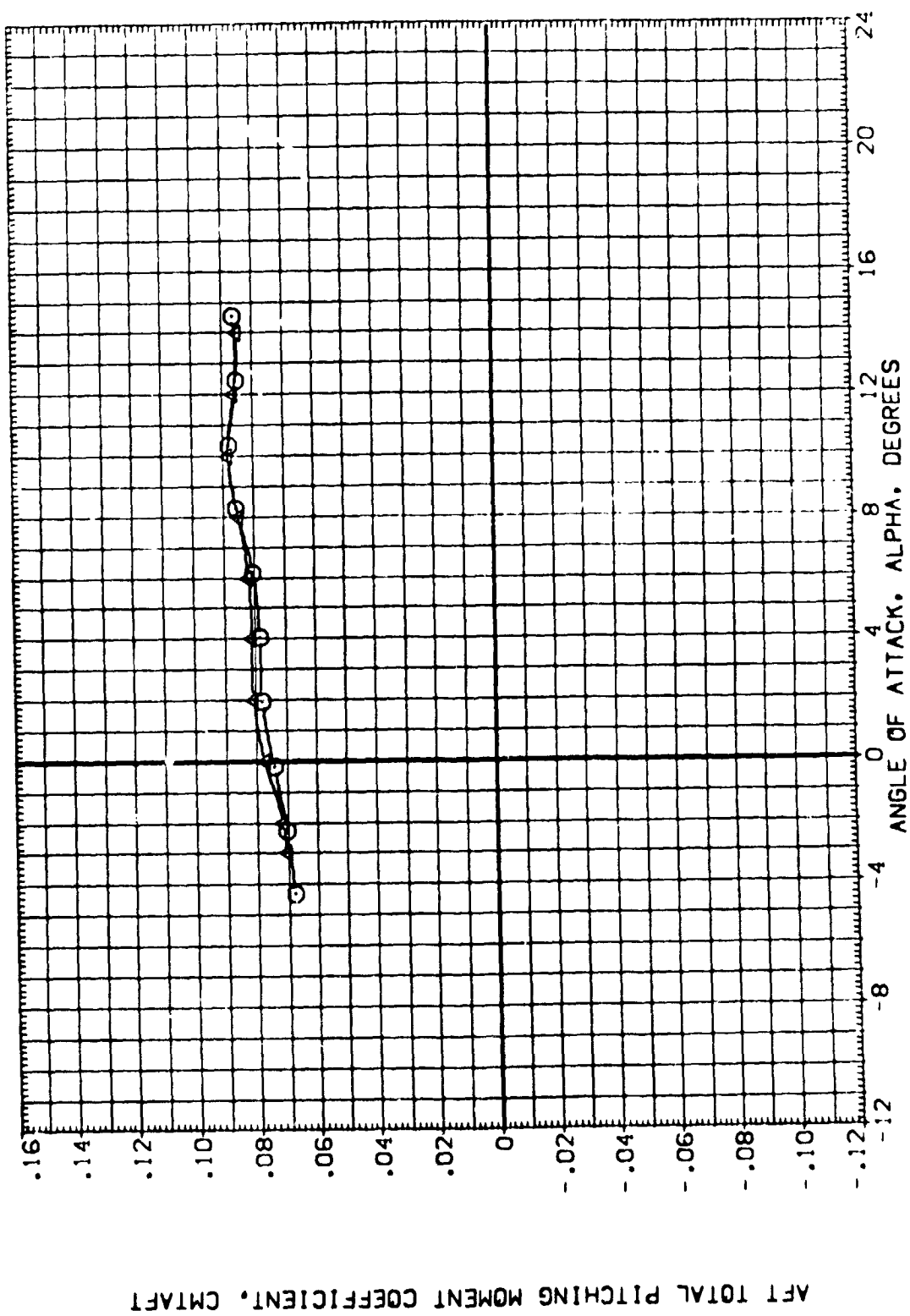


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(0)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(GE R019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GE R022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GE R023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(X R019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(X R022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(X R023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.

SCALE .0150

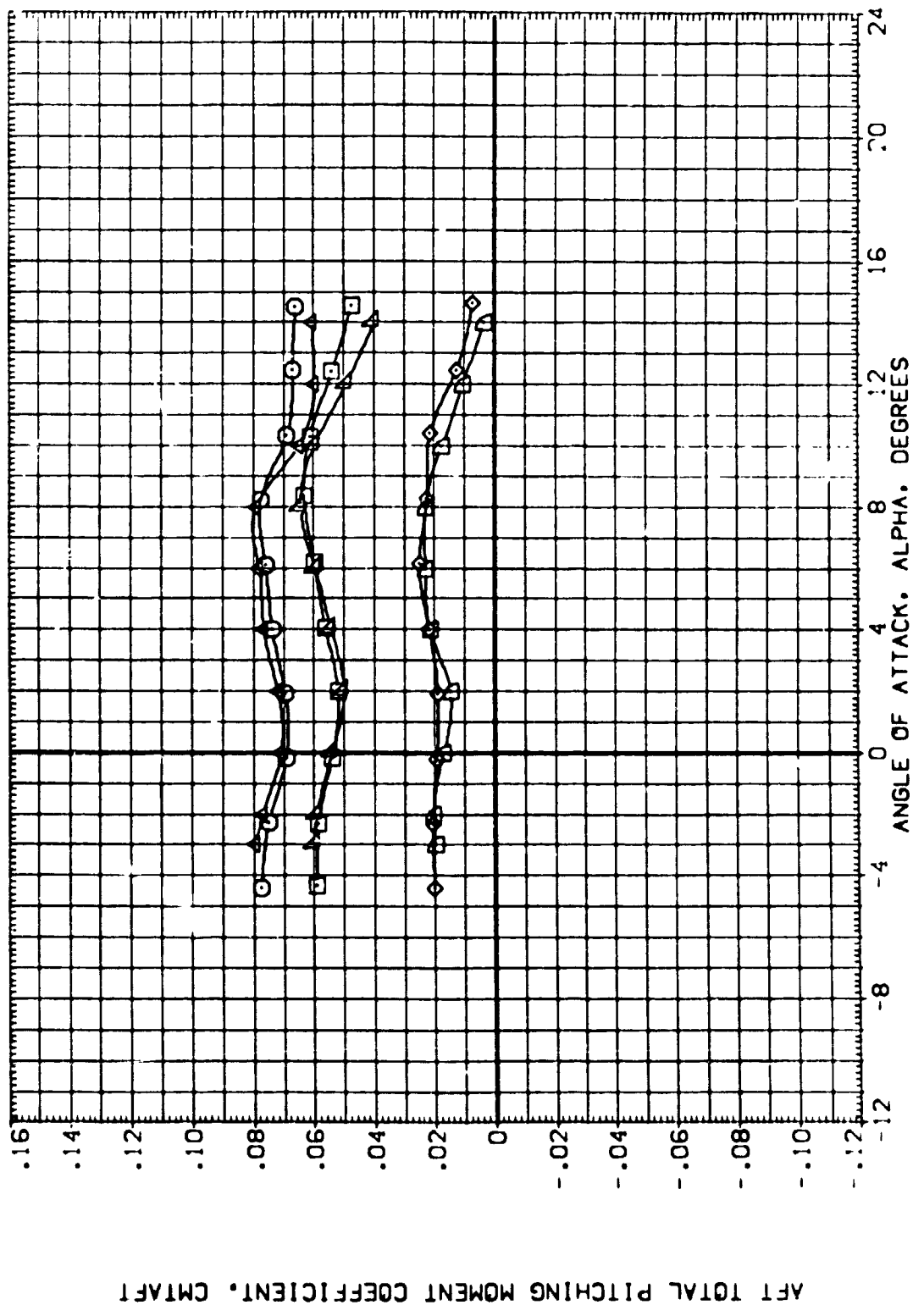


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GE R019) ARC 66-709 OAS9 0111A-N04
 (GE R022) DATA NOT AVAILABLE
 (GE R023) DATA NOT AVAILABLE
 (3F R019) ARC 66-709 OAS9 0111A-N04 (ADJUSTED FOR TARES)
 (3F R022) DATA NOT AVAILABLE
 (3F R023) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5835 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

AFT TOTAL PITCHING MOMENT COEFFICIENT, CMATAF

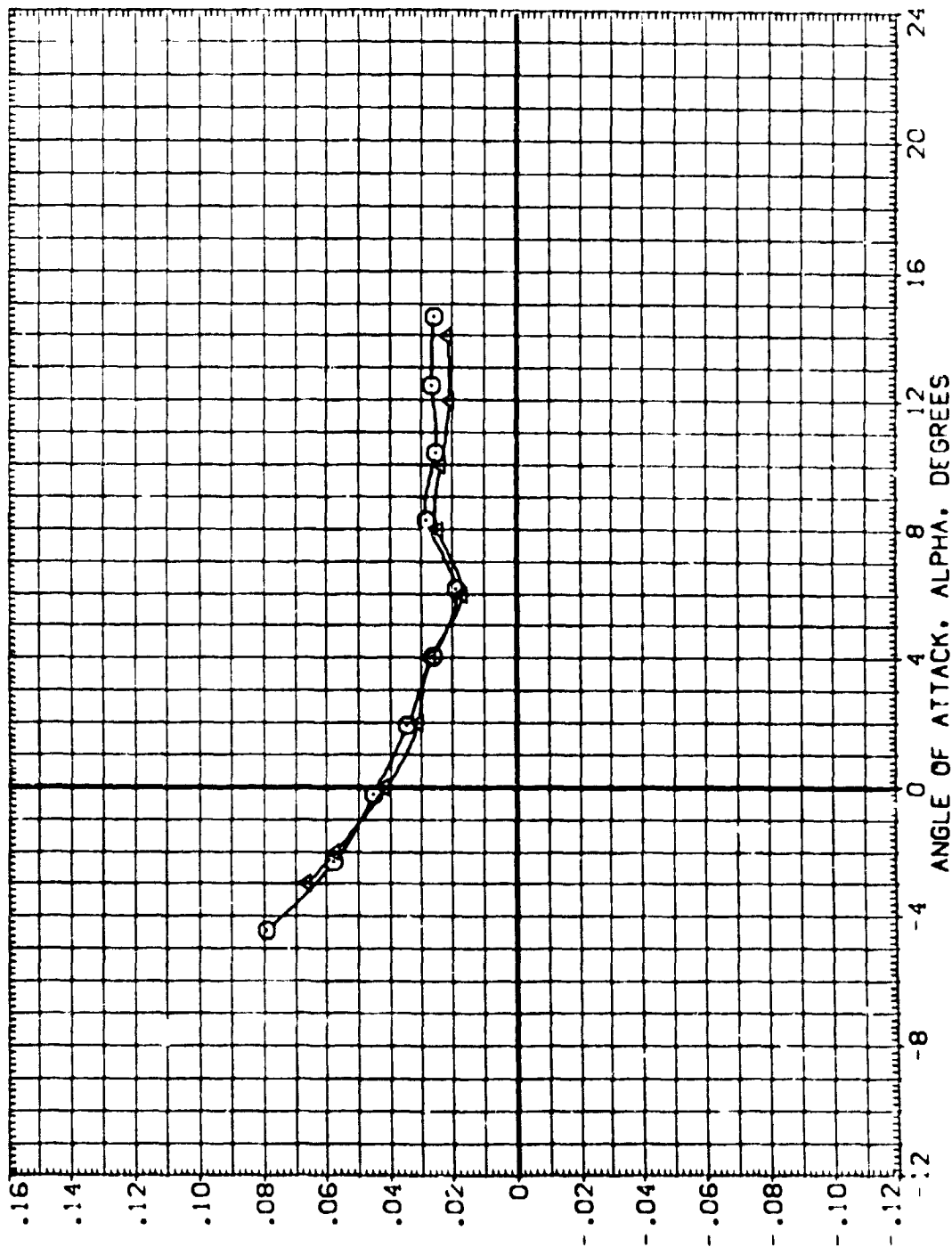


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(F)MAC = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(G)R019	ARC 66-709 DA59 DA11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(G)R022	ARC 66-709 DA59 DA11A-(N24)	.000	.000	.000	LREF .5935 FT.
(G)R073	ARC 66-709 DA59 DA11A-(N24)	.000	.000	.000	BRF 1.1710 IN.
(G)R019	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(G)R022	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(G)R073	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

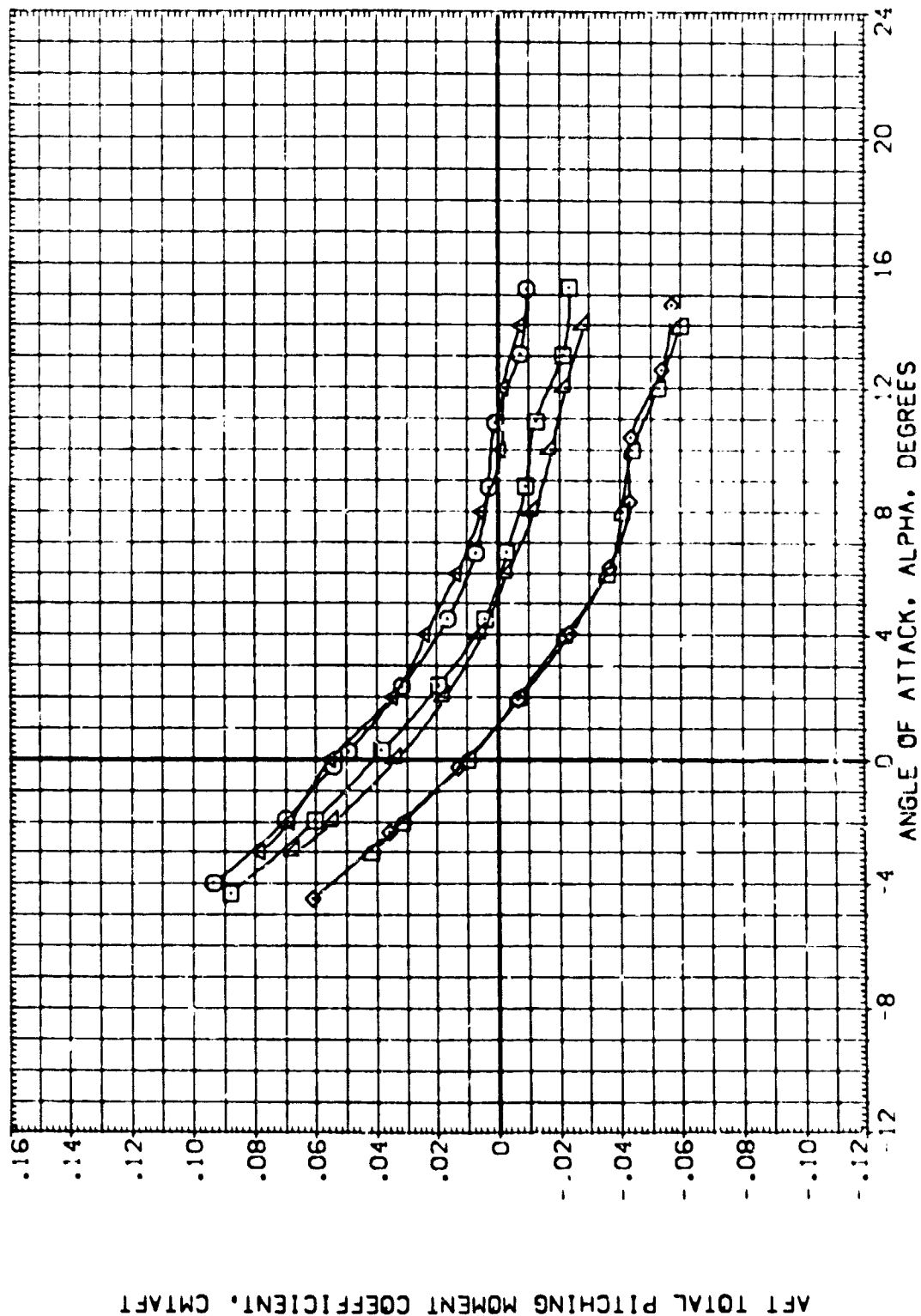


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MAC = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 011A-(N24)	.000	.000	-11.700	SREF .8053 30.FT.
(GER022)	ARC 66-709 0A59 011A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 0A59 011A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(GER019)	ARC 66-709 0A59 011A-(N24) (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(GER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(GER023)	ARC 66-709 0A59 011A-(N24) (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

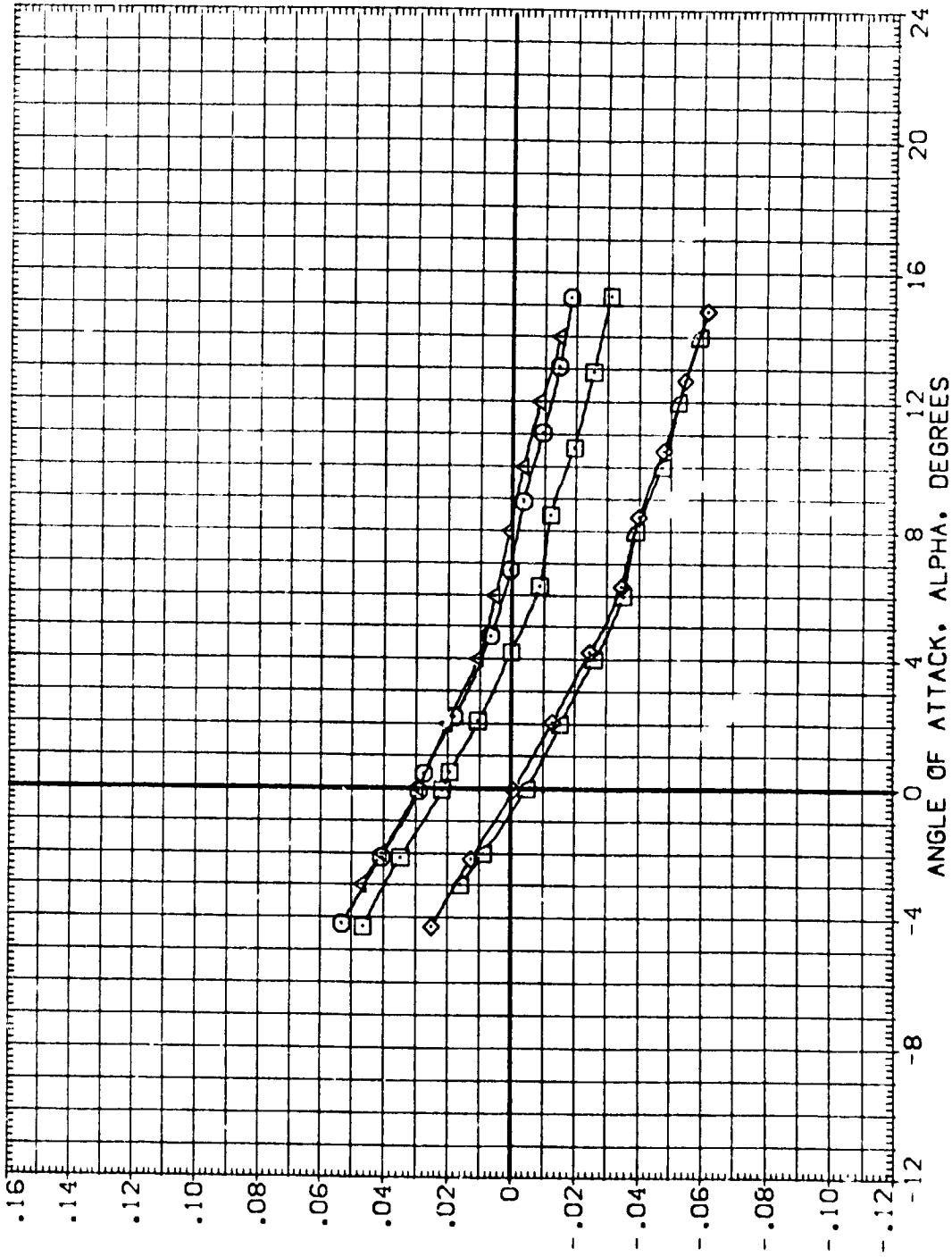


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(H)MACF = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(ZER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMPP 12.6255 IN.
(ZER022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMPP .0000 IN.
(ZER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMPP -.3750 IN.
					SCALE .0150

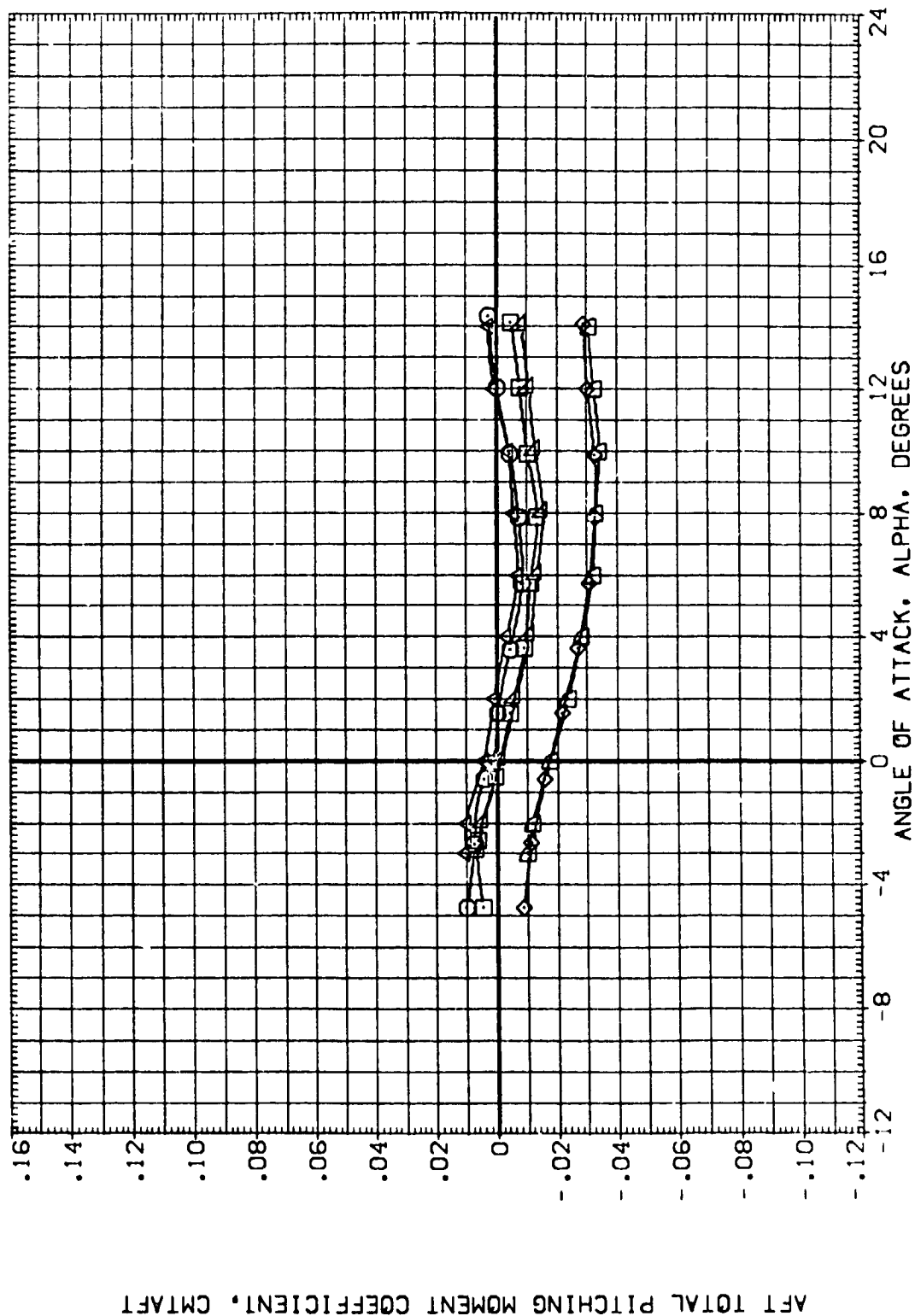


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(J)MACH - 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .8053 SQ.FT.
(GER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(GER019)	ARC 66-709 0A59 0A11A-(N24) (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(GER022)	ARC 66-709 0A59 0A11A-(N24) (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .000 IN.
(GER023)	ARC 66-709 0A59 0A11A-(N24) (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

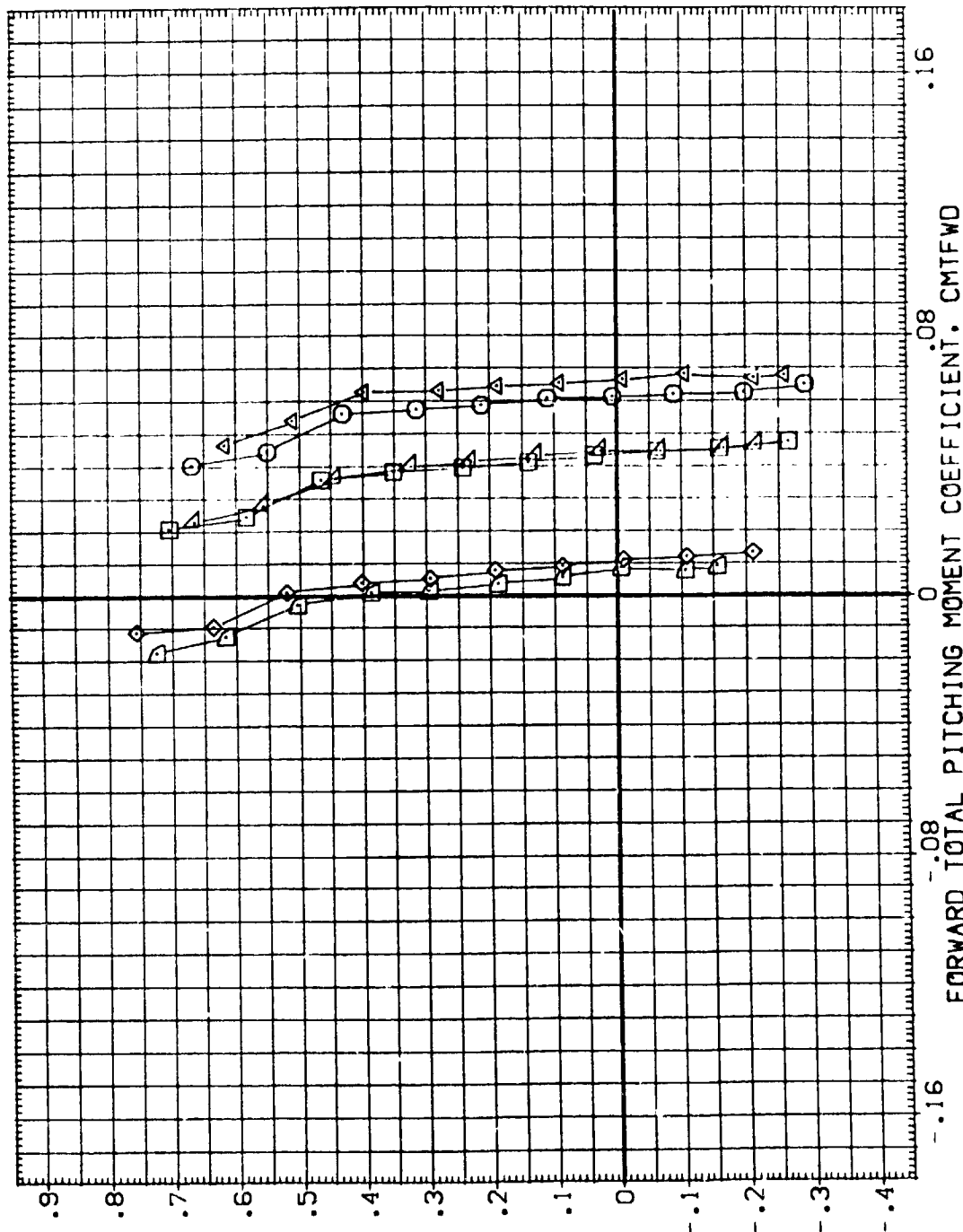


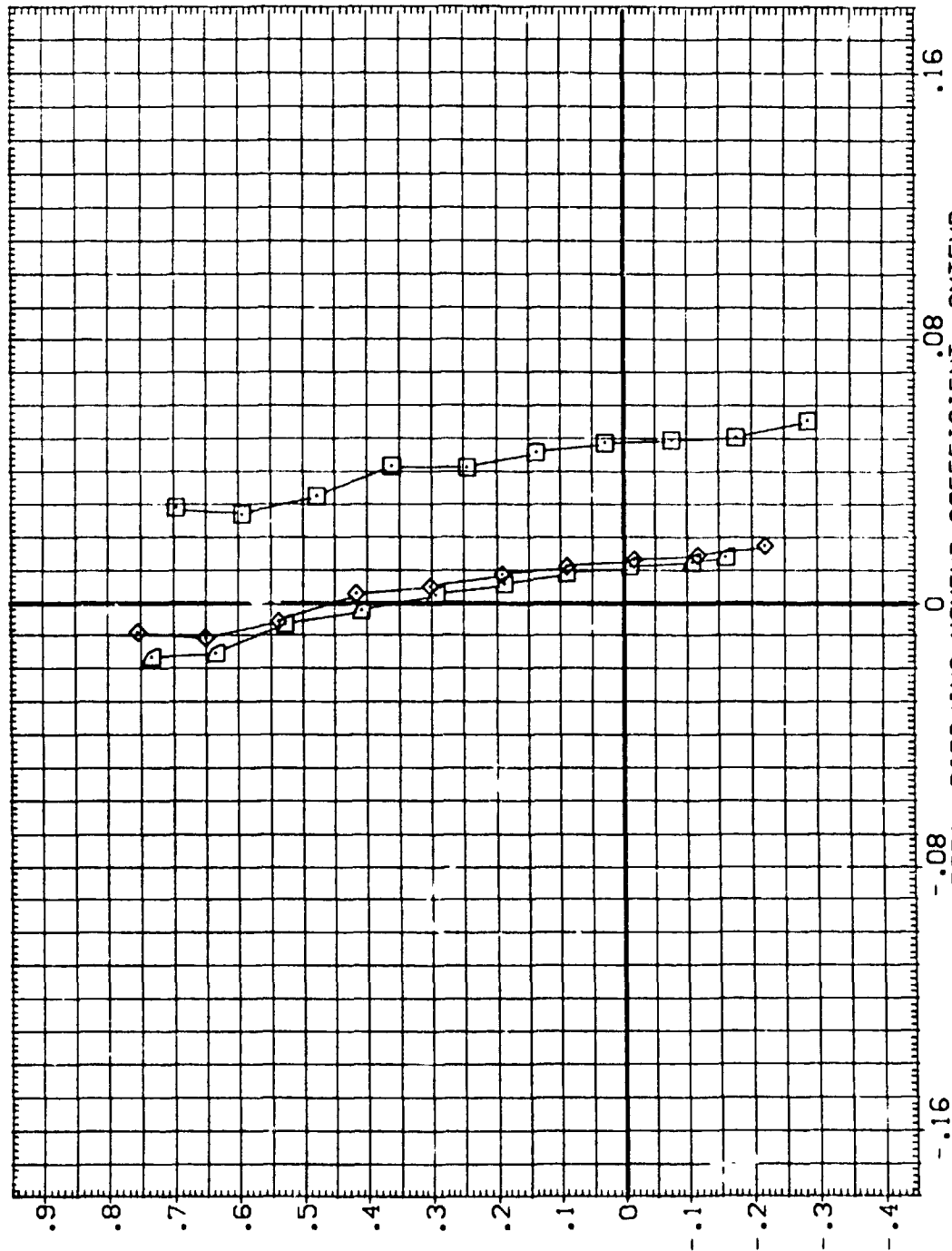
FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GER019) DATA NOT AVAILABLE
 (GER022) ARC 66-709 (AS9 DA11A-(N24)
 (GER023) ARC 66-709 (AS9 DA11A-(N24)
 (GER019) DATA NOT AVAILABLE
 (GER022) DATA NOT AVAILABLE
 (GER023) ARC 66-709 (AS9 DA11A-(N24) (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150



FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMTFWD

FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(ZER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SG.FT.
(ZER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(ZER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(ZER019)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMPP 12.6255 IN.
(ZER022)	DATA NOT AVAILABLE	.000	.000	.000	YMPP .0000 IN.
(ZER023)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMPP -.3750 IN.
					SCALE .0150

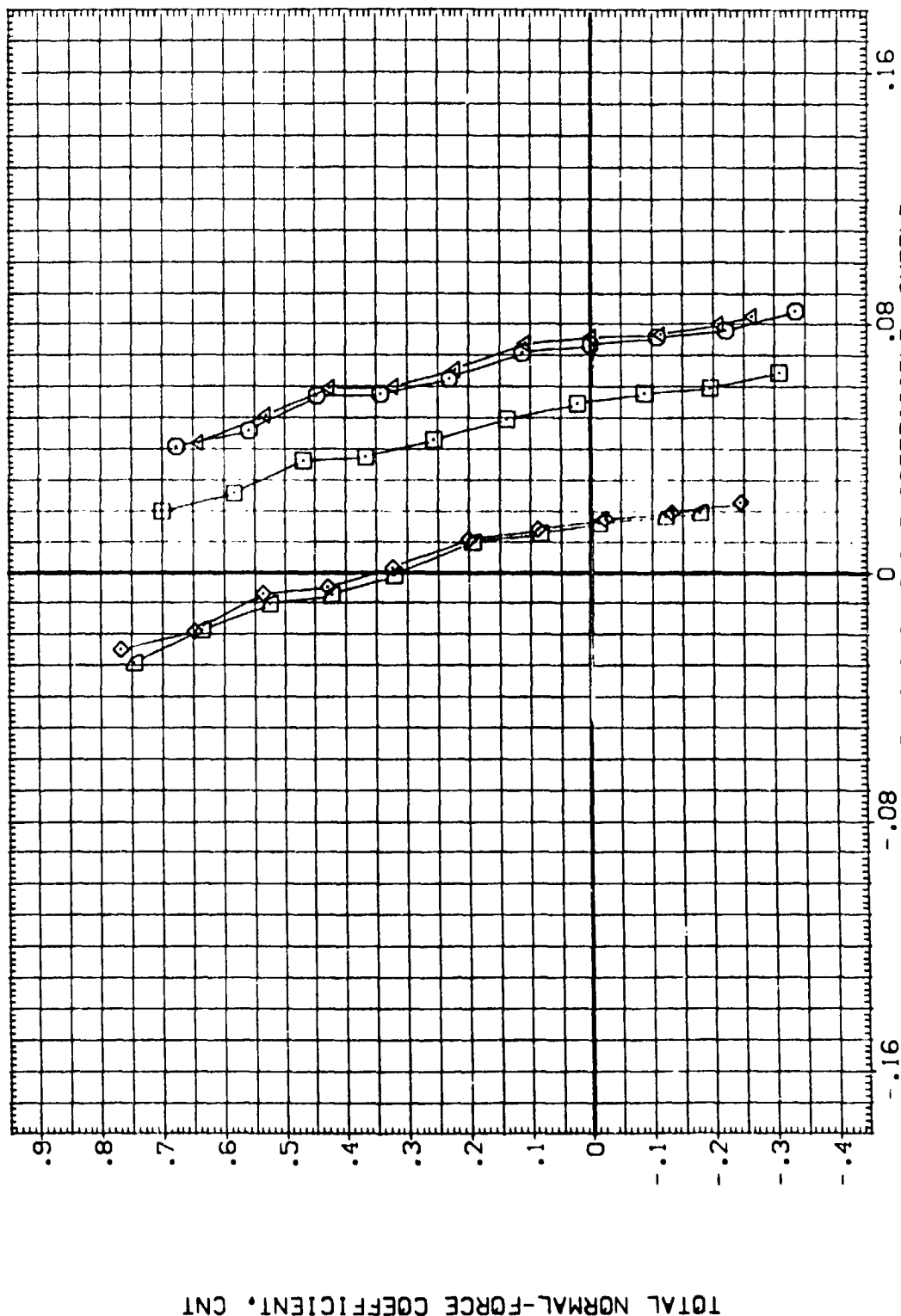
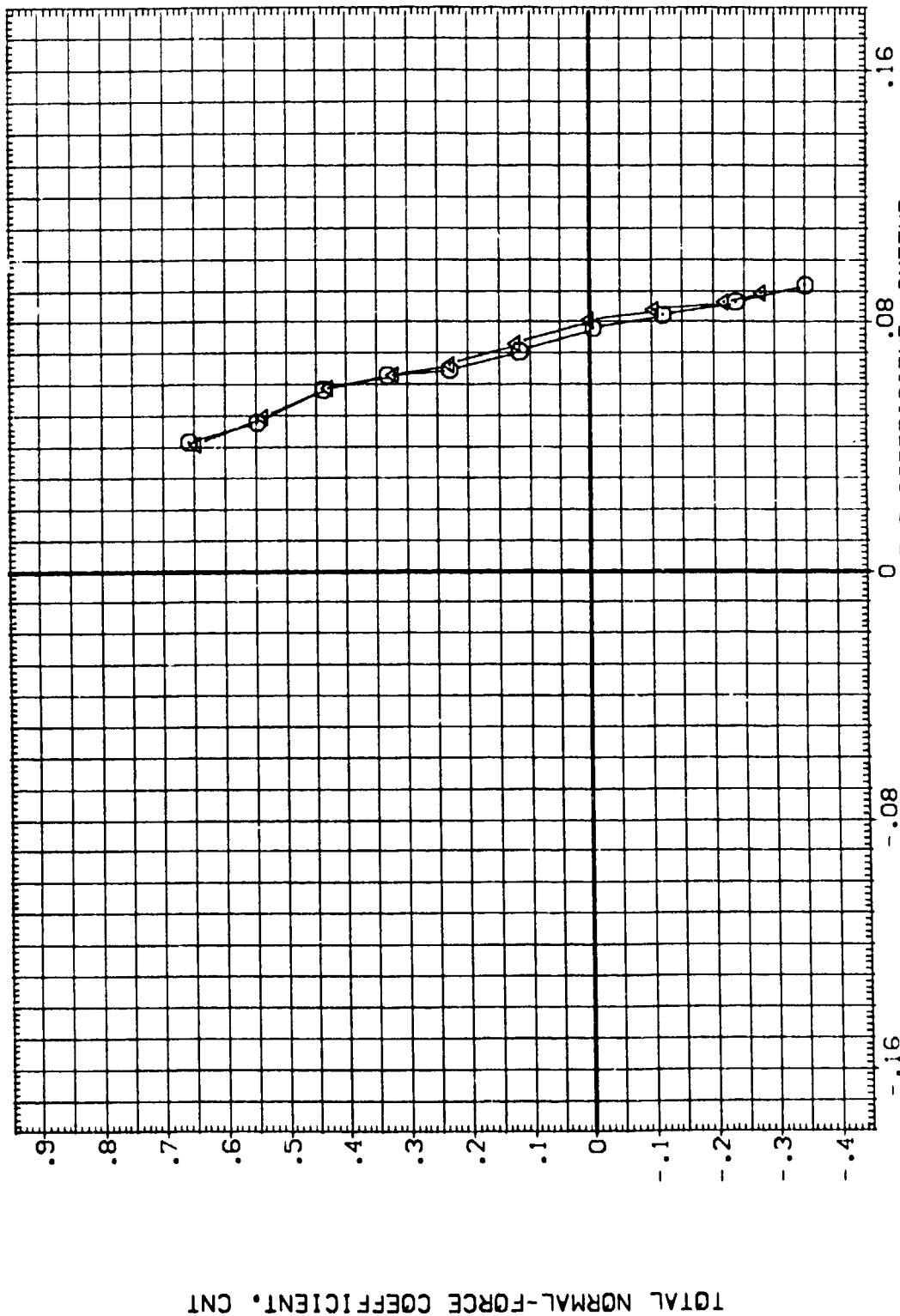


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF -6053 50.FT.
(GER022)	DATA NOT AVAILABLE	.000	.000	.000	LREF -5935 FT.
(GER023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 FT.
(GER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6235 IN.
(GER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(GER023)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
		.000	.000		SCALE .0150



FORWARD TOTAL PITCHING MOMENT COEFFICIENT, C_{mTFWD}

FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(0.85)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GE R019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GE R022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GE R073)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(GE R019)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(GE R022)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(GE R023)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

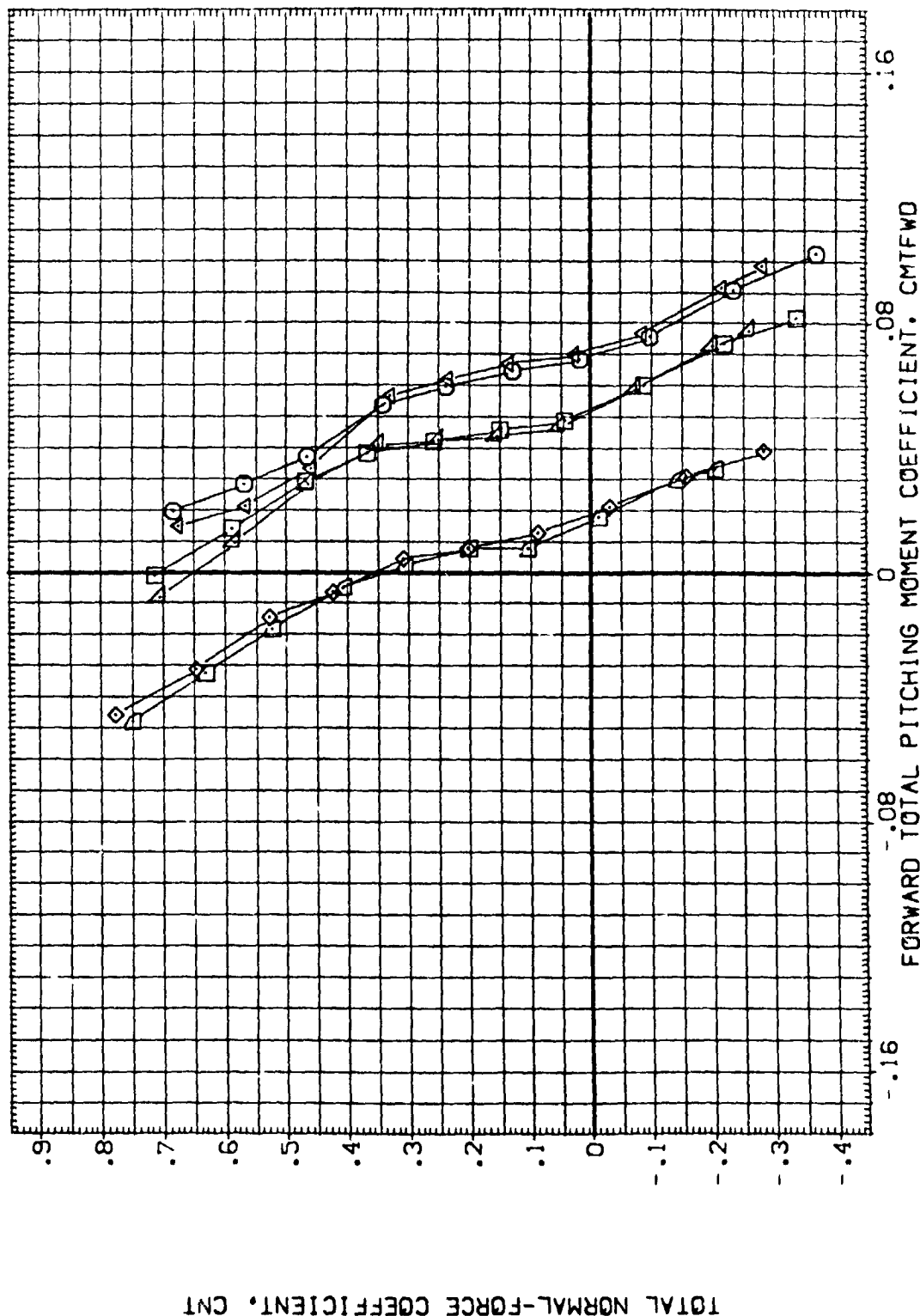


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(E)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GE0019)	ARC 66-709 QAS9 0111A-N24	.000	.000	-11.700	SREF .5053 SQ.FT.
(GE0022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(GE0023)	DATA NOT AVAILABLE	.000	.000	.000	XMRP 1.1710 IN.
(GE0019)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
(GE0022)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
(GE0023)	DATA NOT AVAILABLE	.000	.000	.000	SCALE .0150

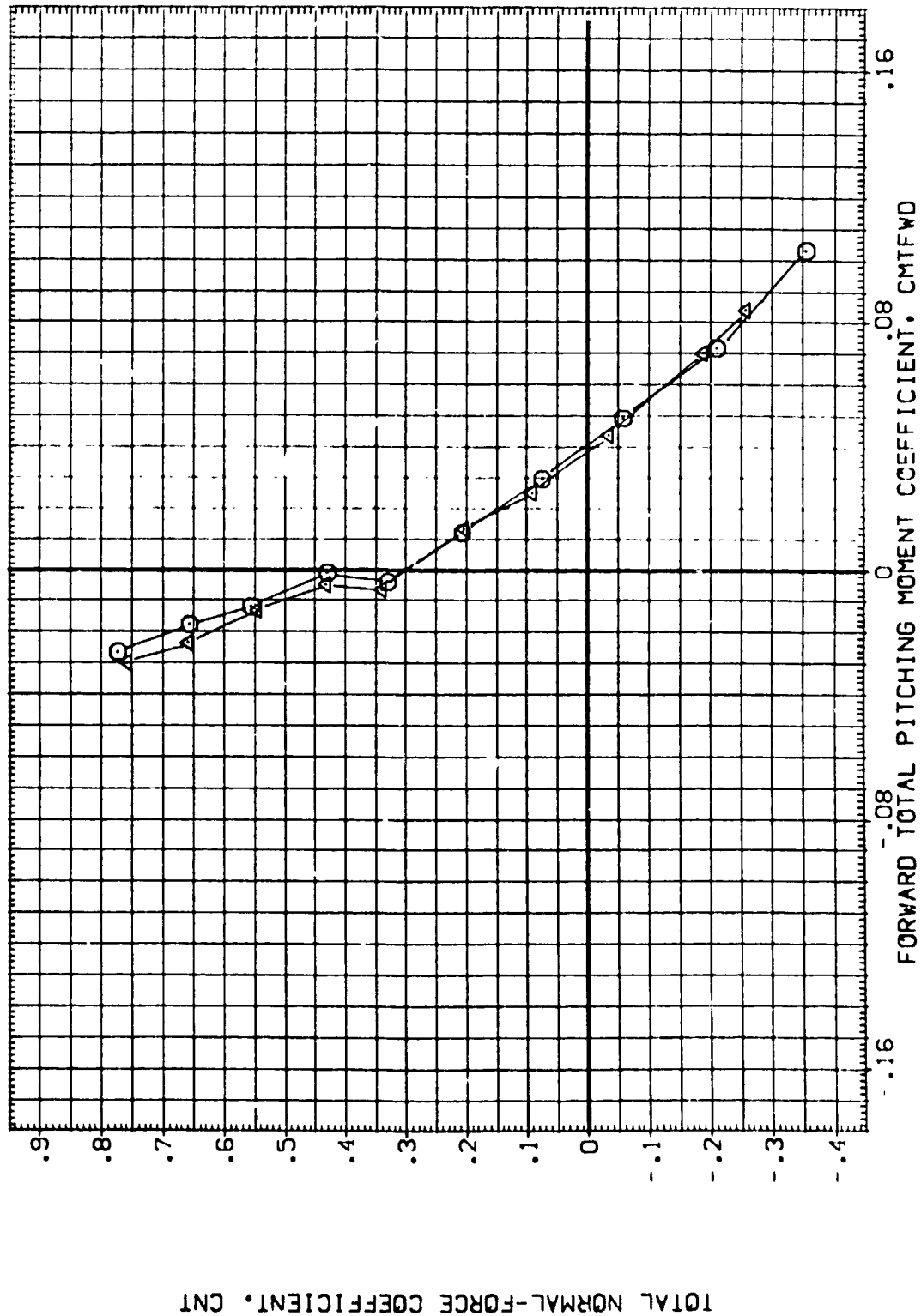


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TAPES

[F]MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER019) ARC 66-709 DAS9 DA11A-(N24)

(GER022) ARC 66-709 DAS9 DA11A-(N24)

(GER023) ARC 66-709 DAS9 DA11A-(N24)

(GER019) ARC 66-709 DAS9 DA11A-N24 (ADJUSTED FOR TARES)

(GER022) ARC 66-709 DAS9 DA11A-N24 (ADJUSTED FOR TARES)

(GER023) ARC 66-709 DAS9 DA11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

REFERENCE INFORMATION

SREF .6053 50. FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

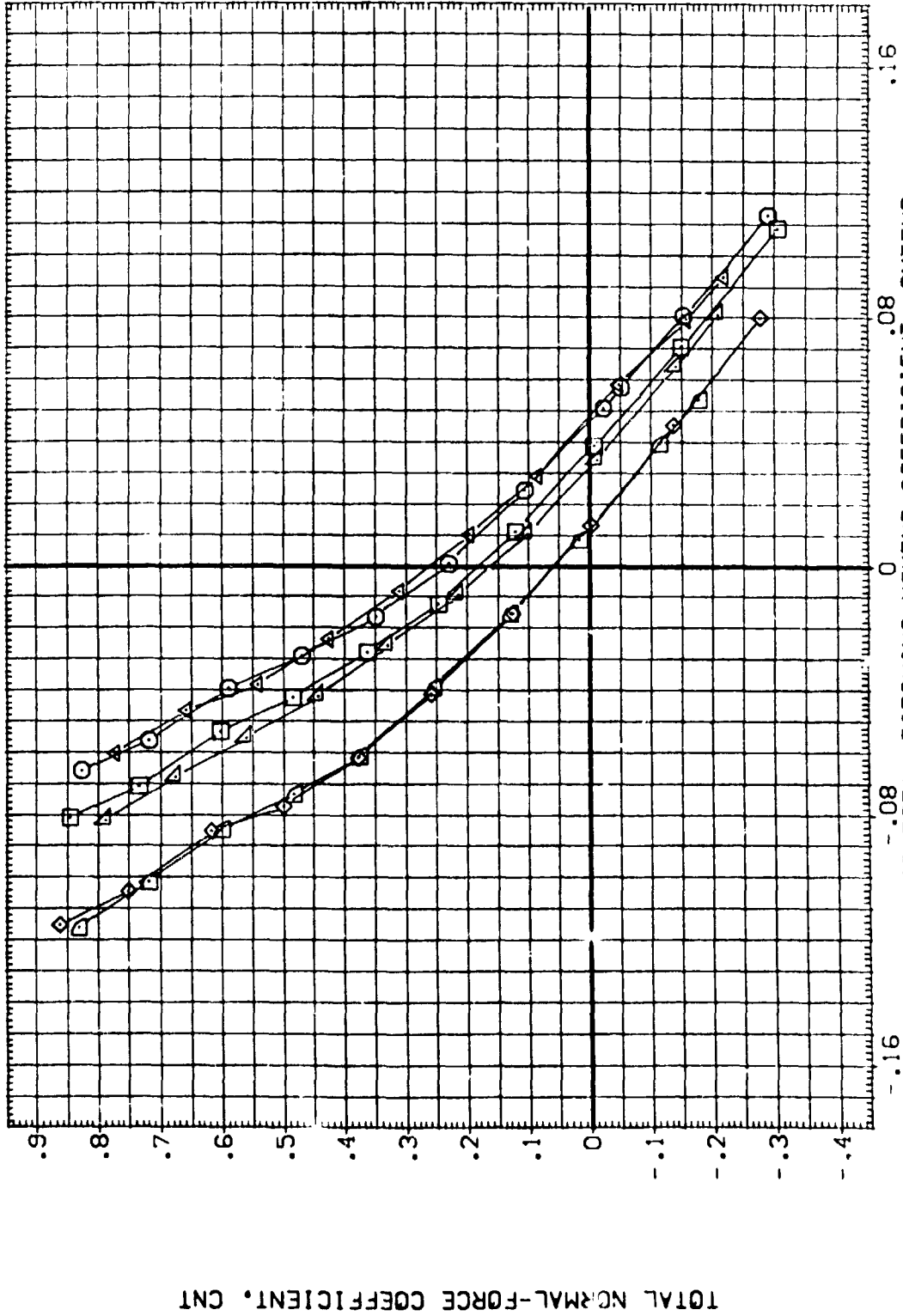


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(GER019)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(GER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(GER023)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

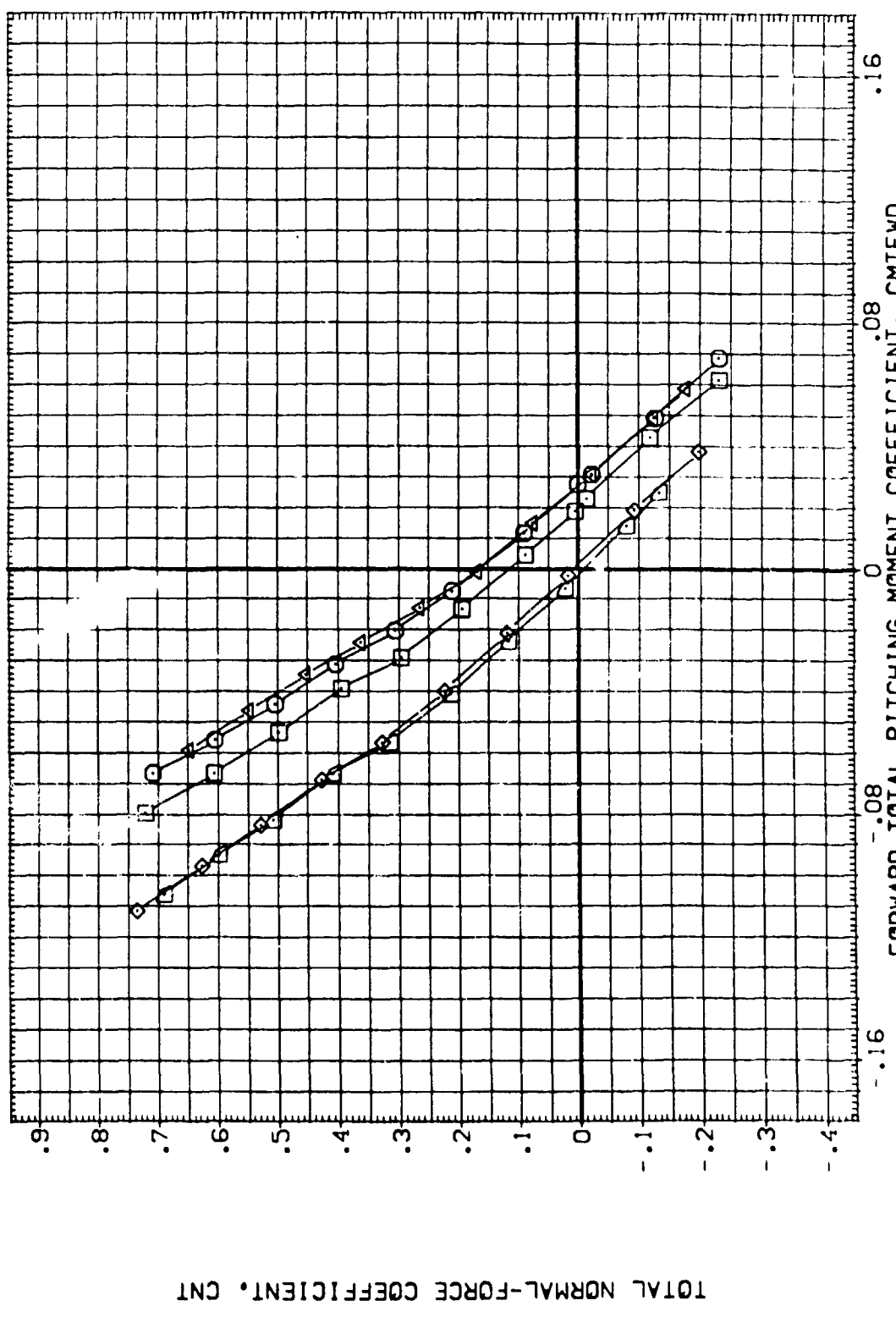


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER019)	ARC 66-709	0A59	0A11A-(N24)
(GER022)	ARC 66-709	0A59	0A11A-(N24)
(GER023)	ARC 66-709	0A59	0A11A-(N24)
(GER019)	ARC 66-709	0A59	0A11A-N24 (ADJUSTED FOR TARES)
(GER022)	ARC 66-709	0A59	0A11A-N24 (ADJUSTED FOR TARES)
(GER023)	ARC 66-709	0A59	0A11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDF LAP

.000	.000	-11.700
.000	.000	.000
.000	.000	16.300
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300

REFERENCE INFORMATION

SREF	.6053	50. FT.
LREF	.5936	FT.
BREF	1.1710	FT.
XMPP	12.6755	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

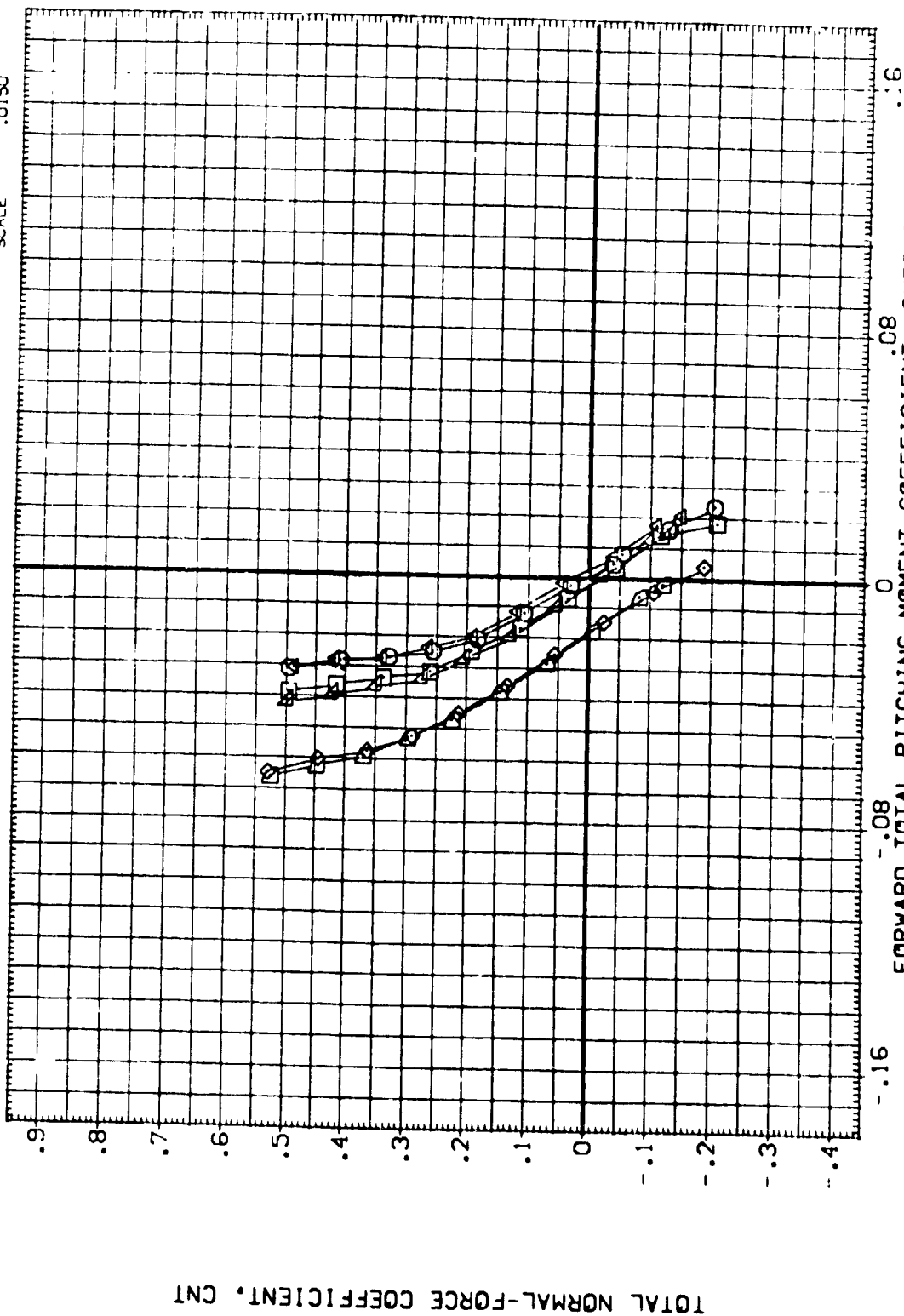


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

CLIMACH = 2.00

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(DEP019)	ARC 66-709	QAS9	.000	.000	-11.700	SREF .6053 SQ.FT.
(DEP022)	ARC 66-709	QAS9	.000	.000	.000	LREF .5935 FT.
(DEP023)	ARC 66-709	QAS9	.000	.000	.000	BREF 1.1710 FT.
(DEP019)	ARC 66-709	QAS9	.000	.000	-11.700	XMRP 12.6255 IN.
(DEP022)	ARC 66-709	QAS9	.000	.000	.000	YMRP .0000 IN.
(DEP023)	ARC 66-709	QAS9	.000	.000	16.300	ZMRP -.3750 IN.
						SCALE .0150

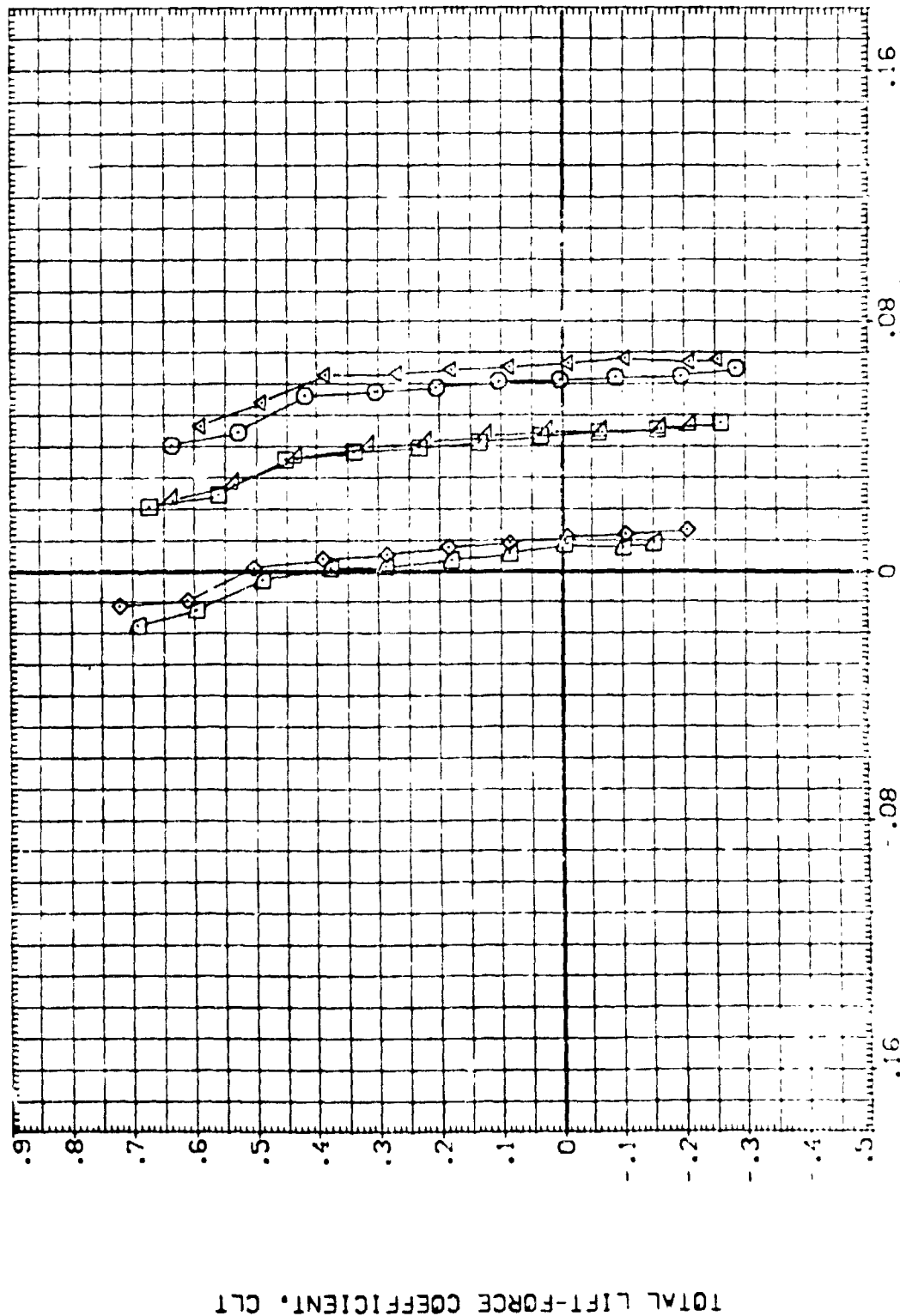
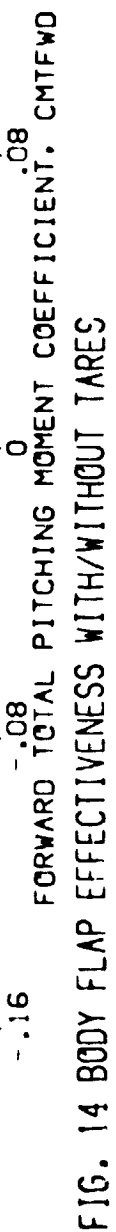


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT FLAPS

TOTAL LIFT-FORCE COEFFICIENT, CLT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDFLAP	REFERENCE INFORMATION
(C) RC19	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50. FT.
(C) RC22	ARC 66-708 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(C) RC23	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.6.300	BREF 1.1710 FT.
(C) RC19	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6755 IN.
(C) RC22	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(C) RC23	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.6.300	ZMRP -.3750 IN.
					SCALE .0150

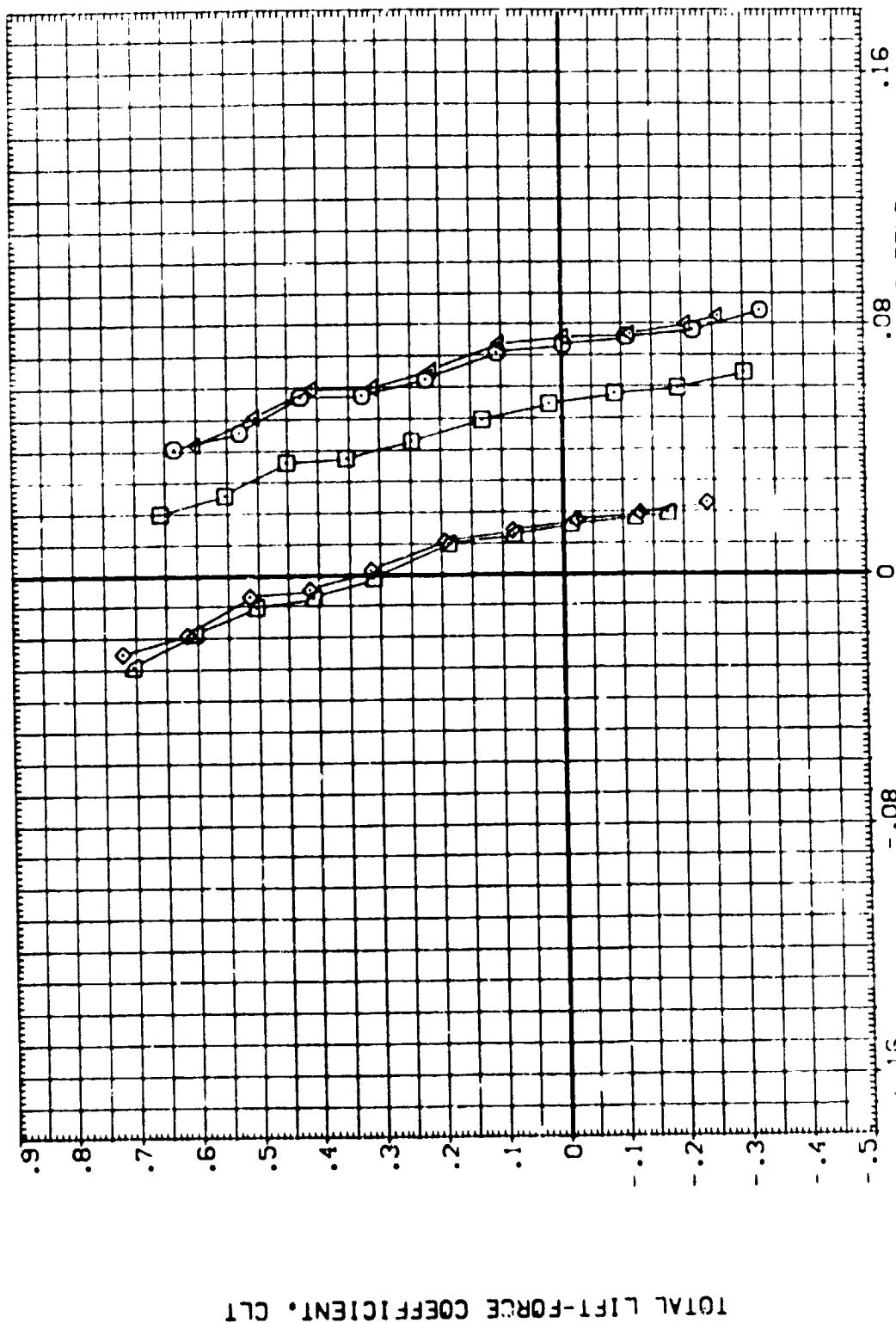


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C) MAC - .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ. FT.
(GER022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(GER023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 IN.
(GER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
(GER022)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
(GER023)	DATA NOT AVAILABLE	.000	.000	16.300	SCALE .0150

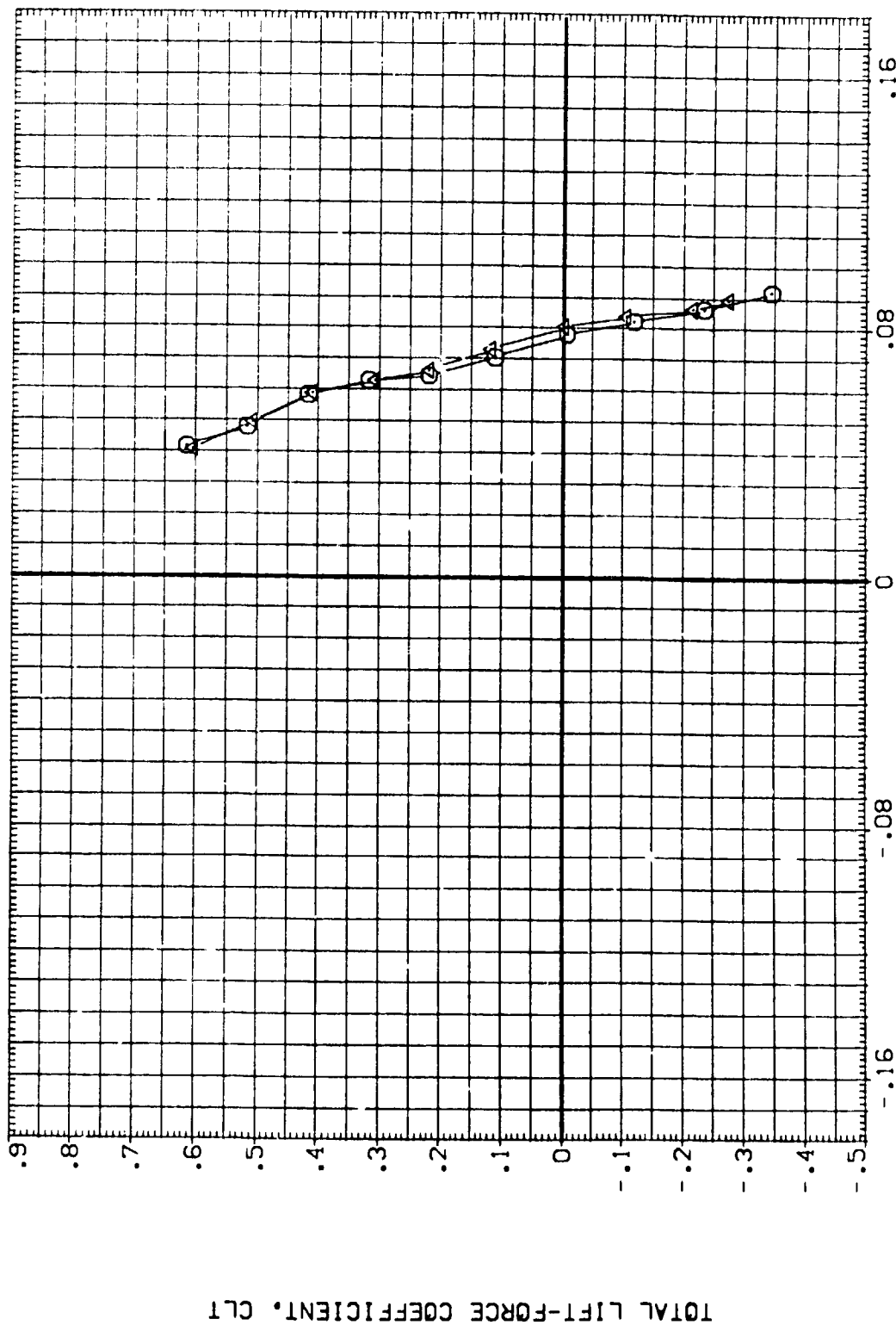


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(0)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER019)	ARC 66-709 0A59 0A11A-(N24)
(GER022)	ARC 66-709 0A59 0A11A-(N24)
(GER023)	ARC 66-709 0A59 0A11A-(N24)
(GER019)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)
(GER022)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)
(GER023)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	.000	.000
.000	.000	.000
.000	.000	16.300
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300

REFERENCE INFORMATION

SREF	.6053	SQ.FT.
LREF	.3535	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

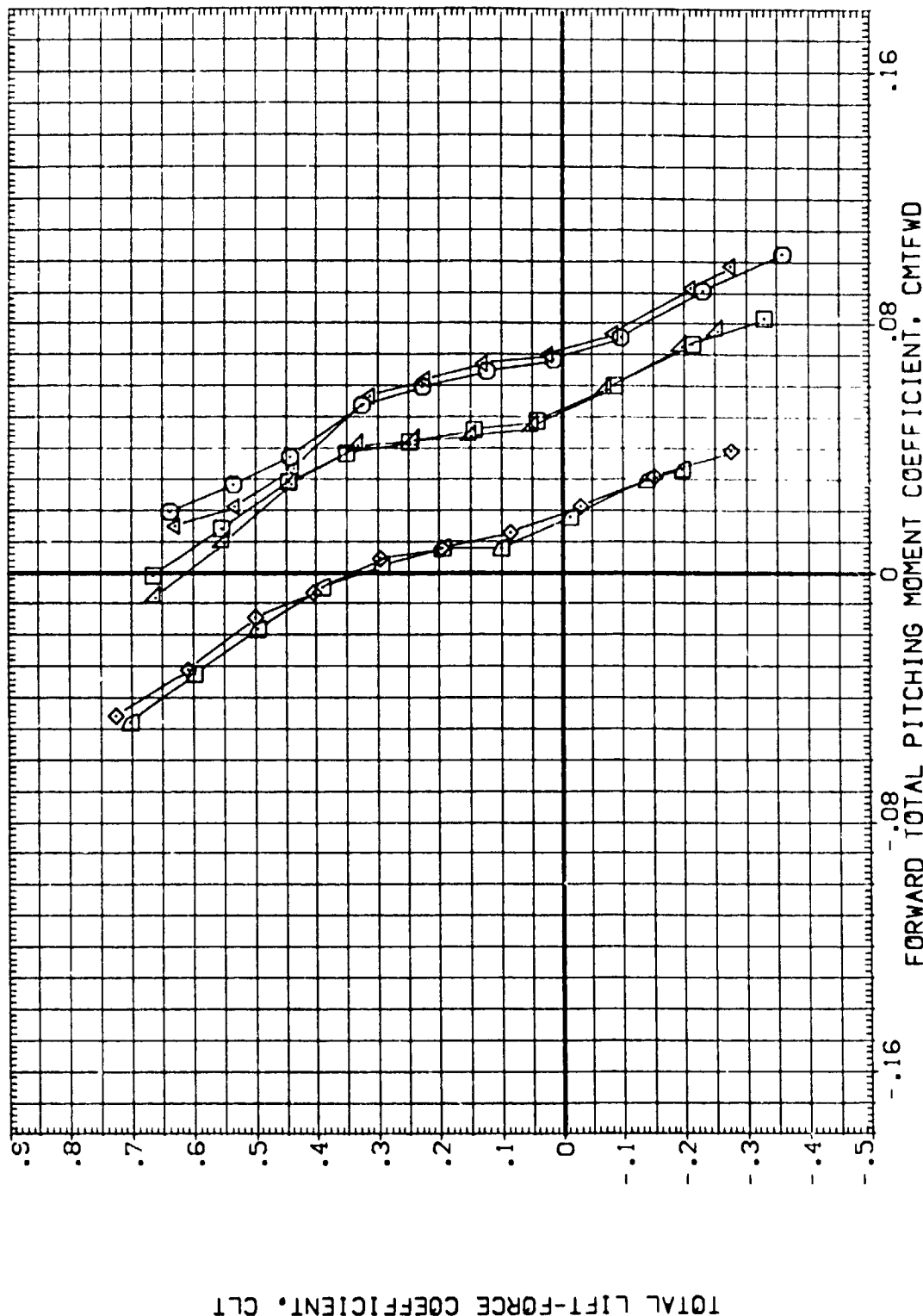


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(E)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GE019) ARC 66-709 D459 D11A-N24
 (GE022) DATA NOT AVAILABLE
 (GE023) DATA NOT AVAILABLE
 (3E019) ARC 66-709 D459 D11A-N24 (ADJUSTED FOR TARE)
 (3E022) DATA NOT AVAILABLE
 (3E023) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300

REFERENCE INFORMATION
 SREF .6033 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

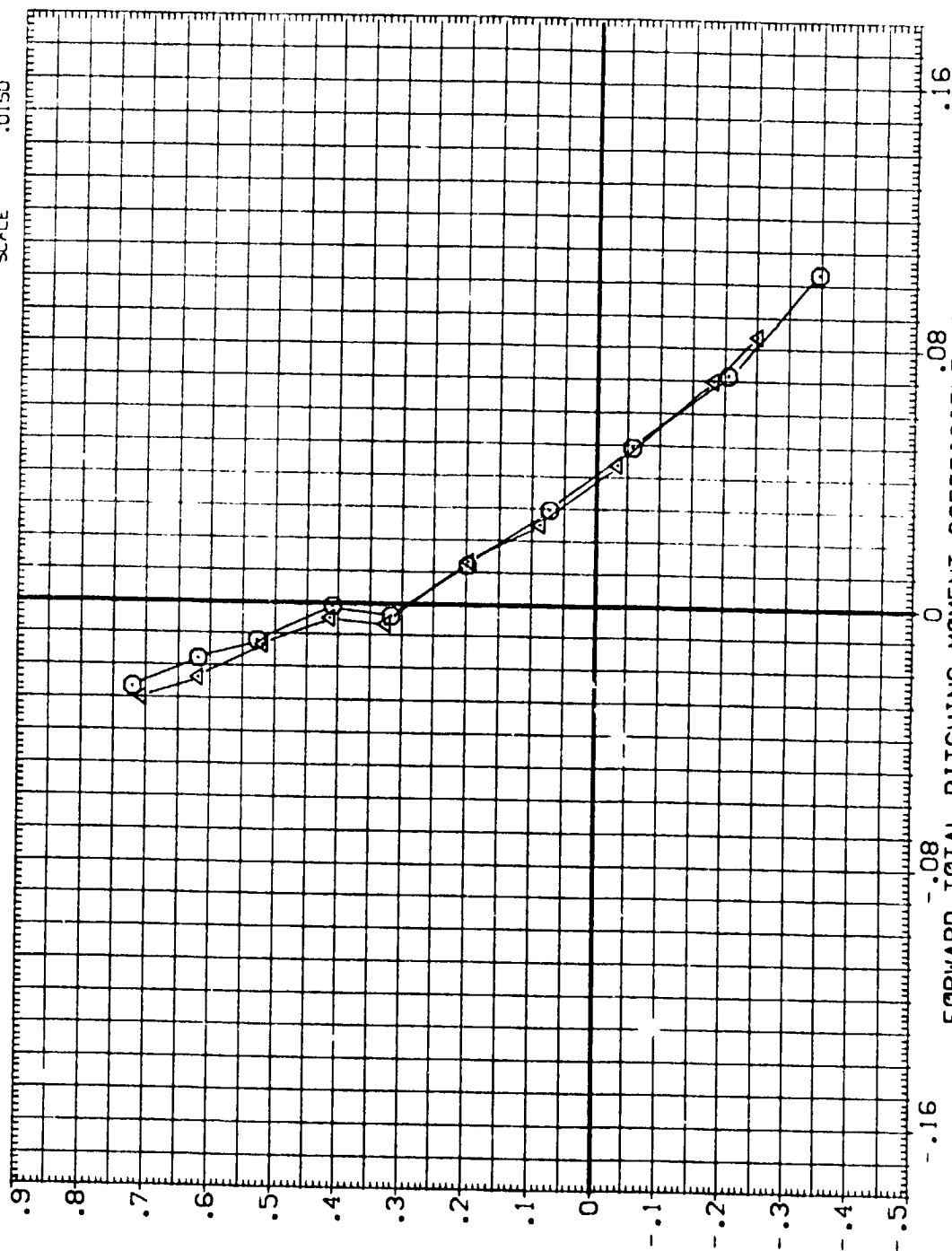


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(GER019)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(GER022)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(GER023)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

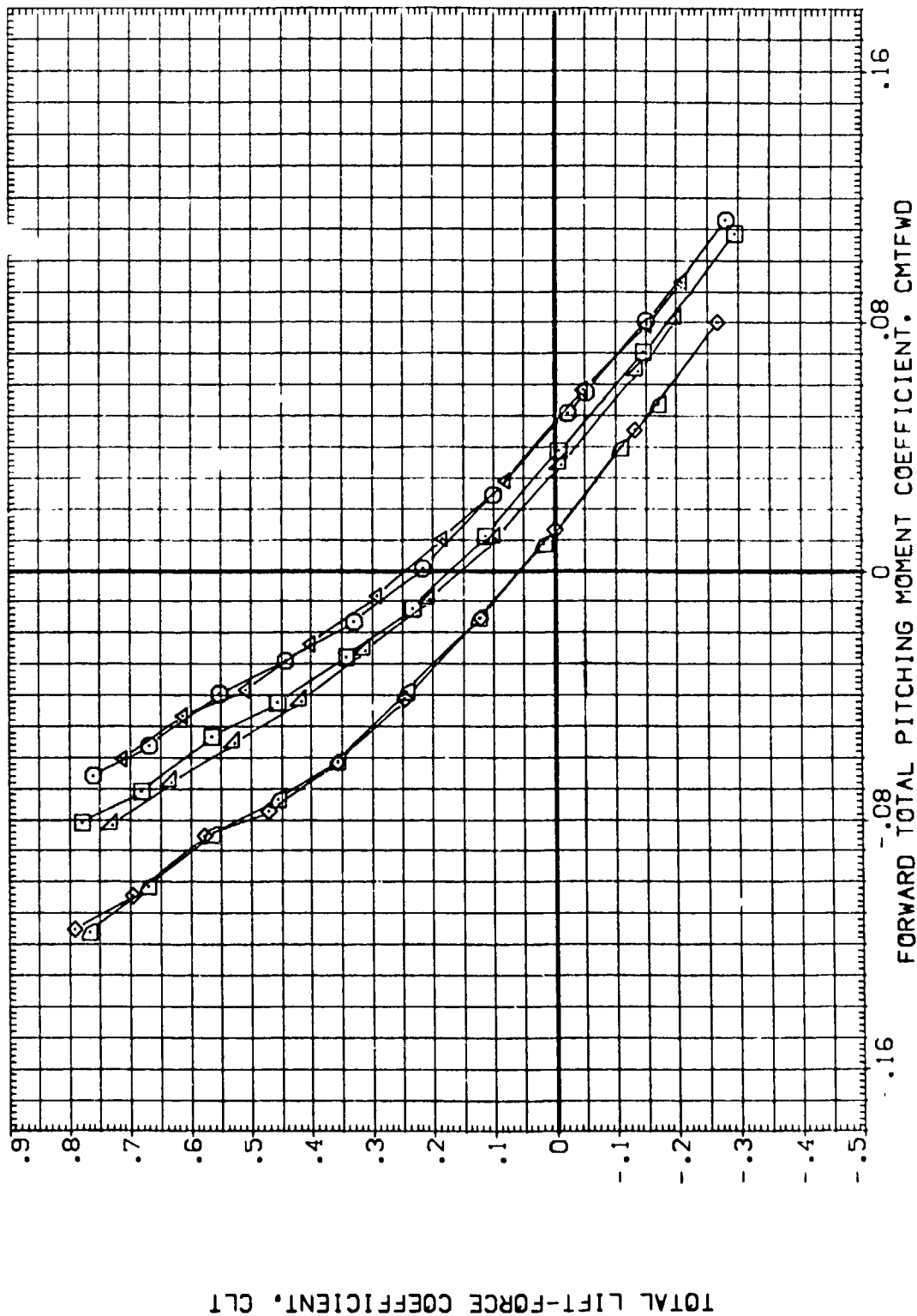


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MAC: 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(36R019) ARC 66-709 0A59 0111A-N24

(36R022) ARC 66-709 0A59 0111A-N24

(36R023) ARC 66-709 0A59 0111A-N24

(36R019) ARC 66-709 0A59 0111A-N24 (ADJUSTED FOR TARES)

(36R022) DATA NOT AVAILABLE

(36R023) ARC 66-709 0A59 0111A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMPP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

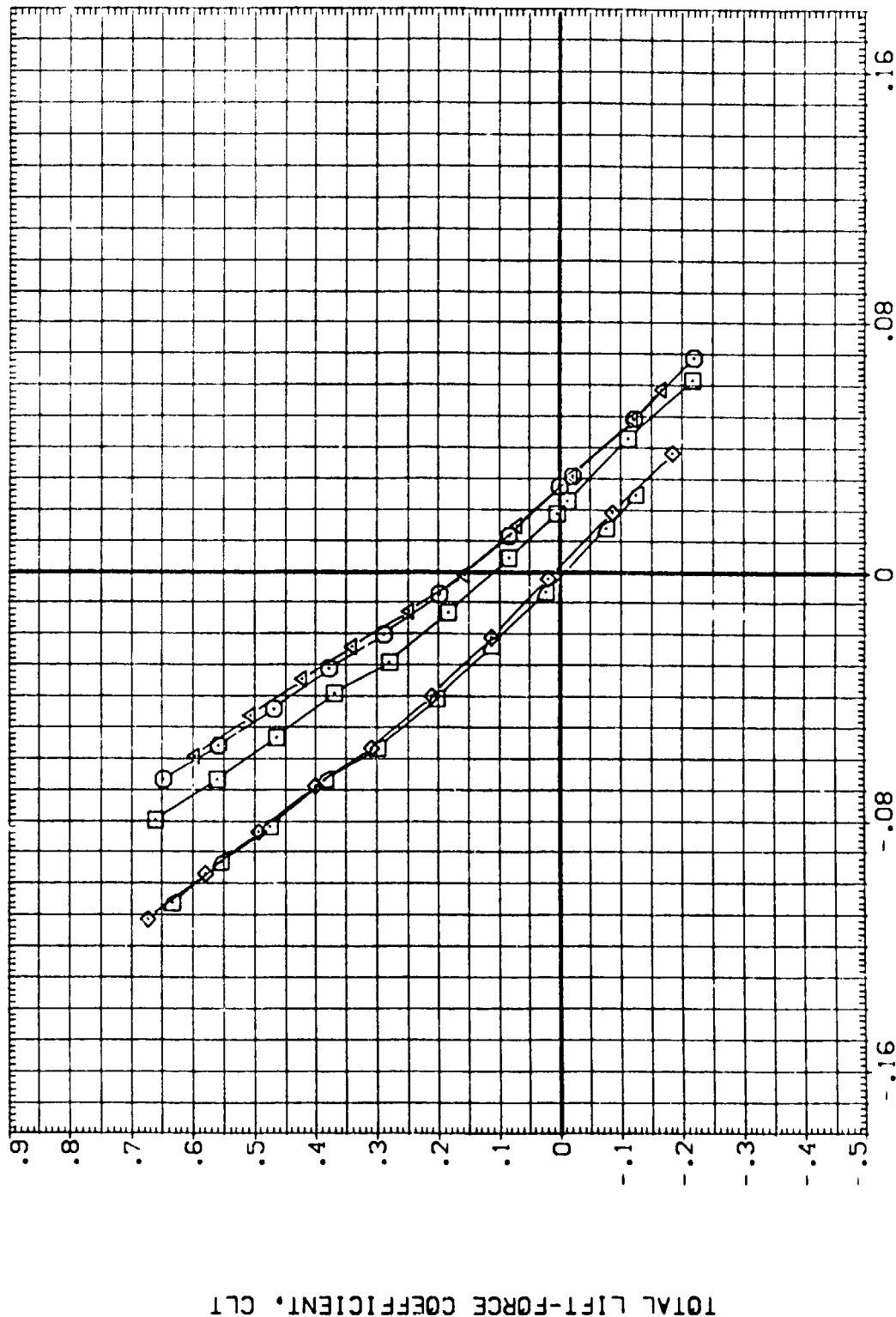


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 1.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOX-LAP	REFERENCE INFORMATION
(GE R019)	□	ARC 66-709 OAS9 D111A-N24	.000	.000	-11.700	SREF .6053 SQ.FT.
(GE R022)	◇	ARC 66-709 OAS9 D111A-N24	.000	.000	.000	LREF .5935 FT.
(GE R023)	△	ARC 66-709 OAS9 D111A-N24	.000	.000	16.300	BREF 1.1710 IN.
(GE R019)	◇	ARC 66-709 OAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(GE R022)	△	ARC 66-709 OAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(GE R023)	◇	ARC 66-709 OAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
						SCALE .0150

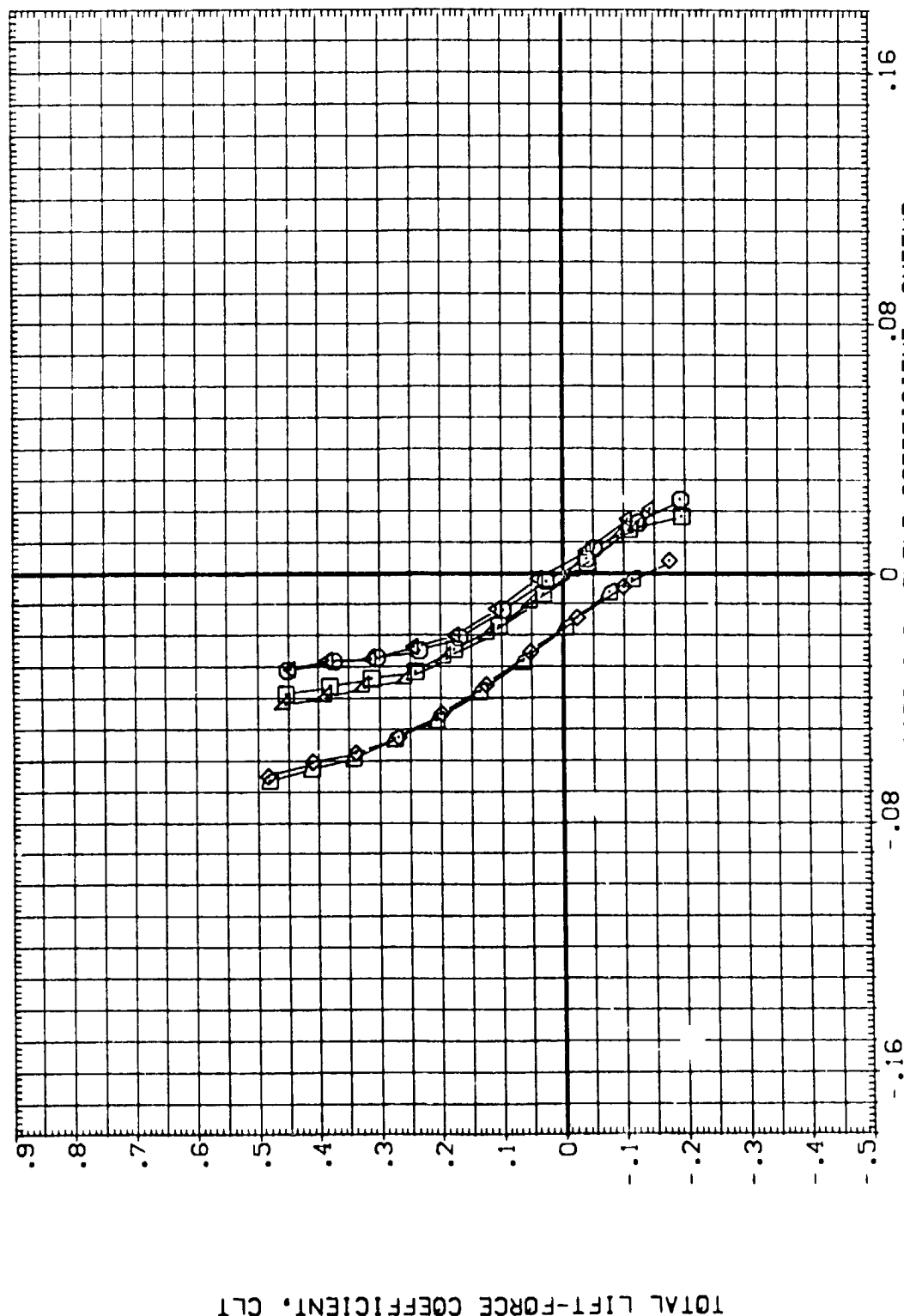


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(1)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	.000	BREF 1.1710 IN.
(3ER019)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(3ER022)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(3ER023)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

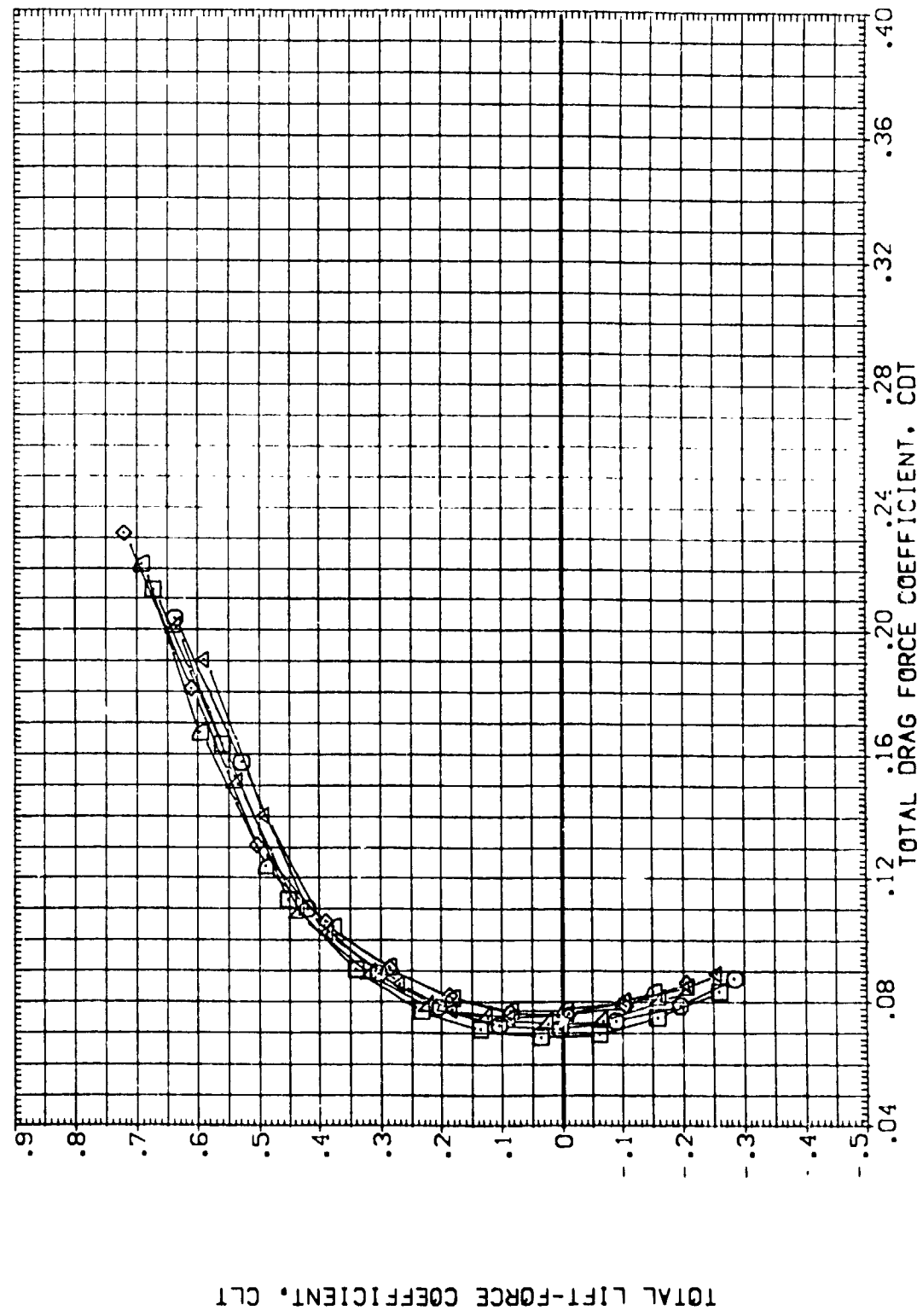


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	DATA NOT AVAILABLE	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	ARC 66-709 DA59 DAI1A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 DA59 DAI1A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(GER019)	DATA NOT AVAILABLE	.000	.000	-11.700	XMRP 12.6255 IN.
(GER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(GER023)	ARC 66-709 DA59 DAI1A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

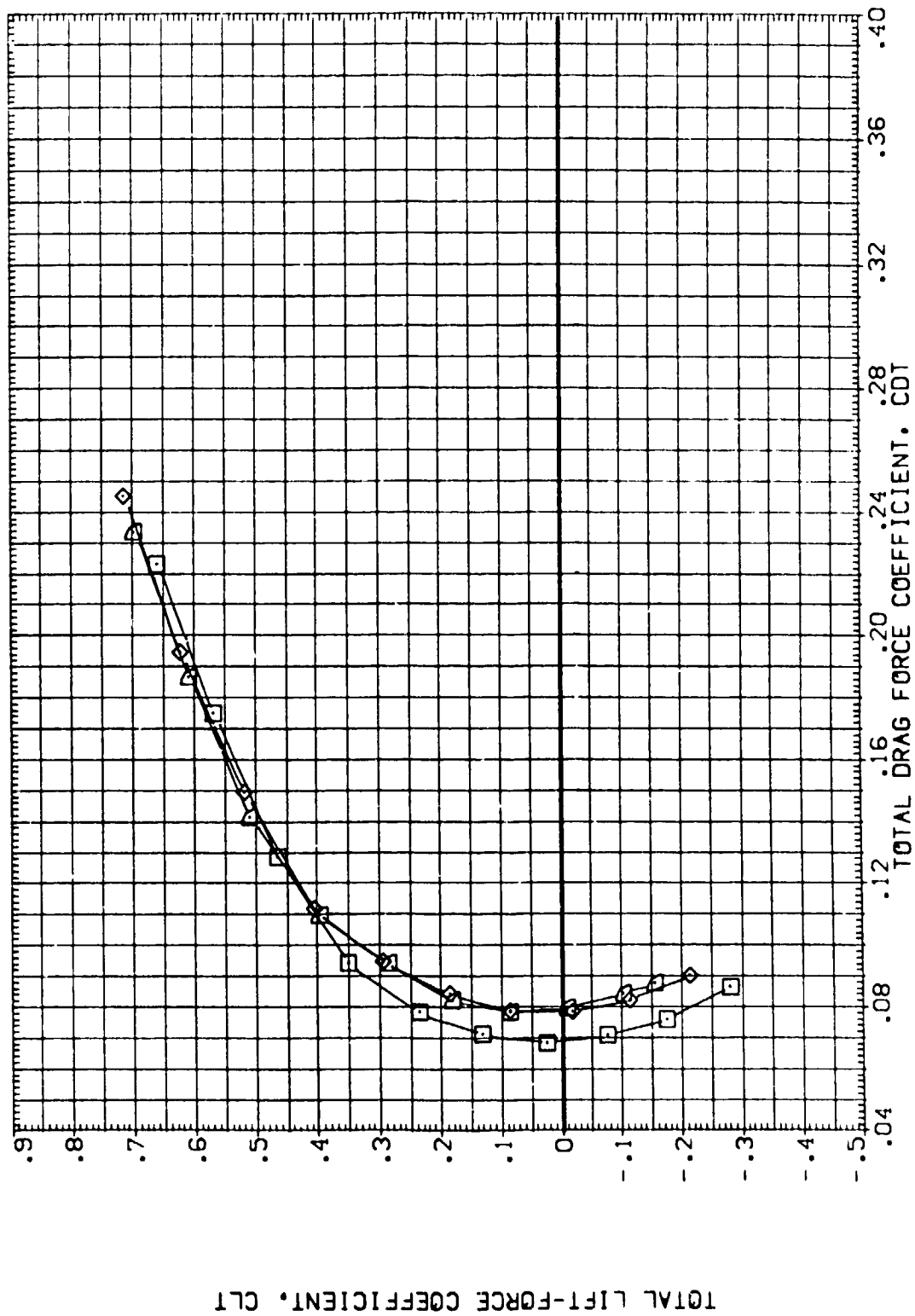


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(ZER019)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(ZER023)	ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

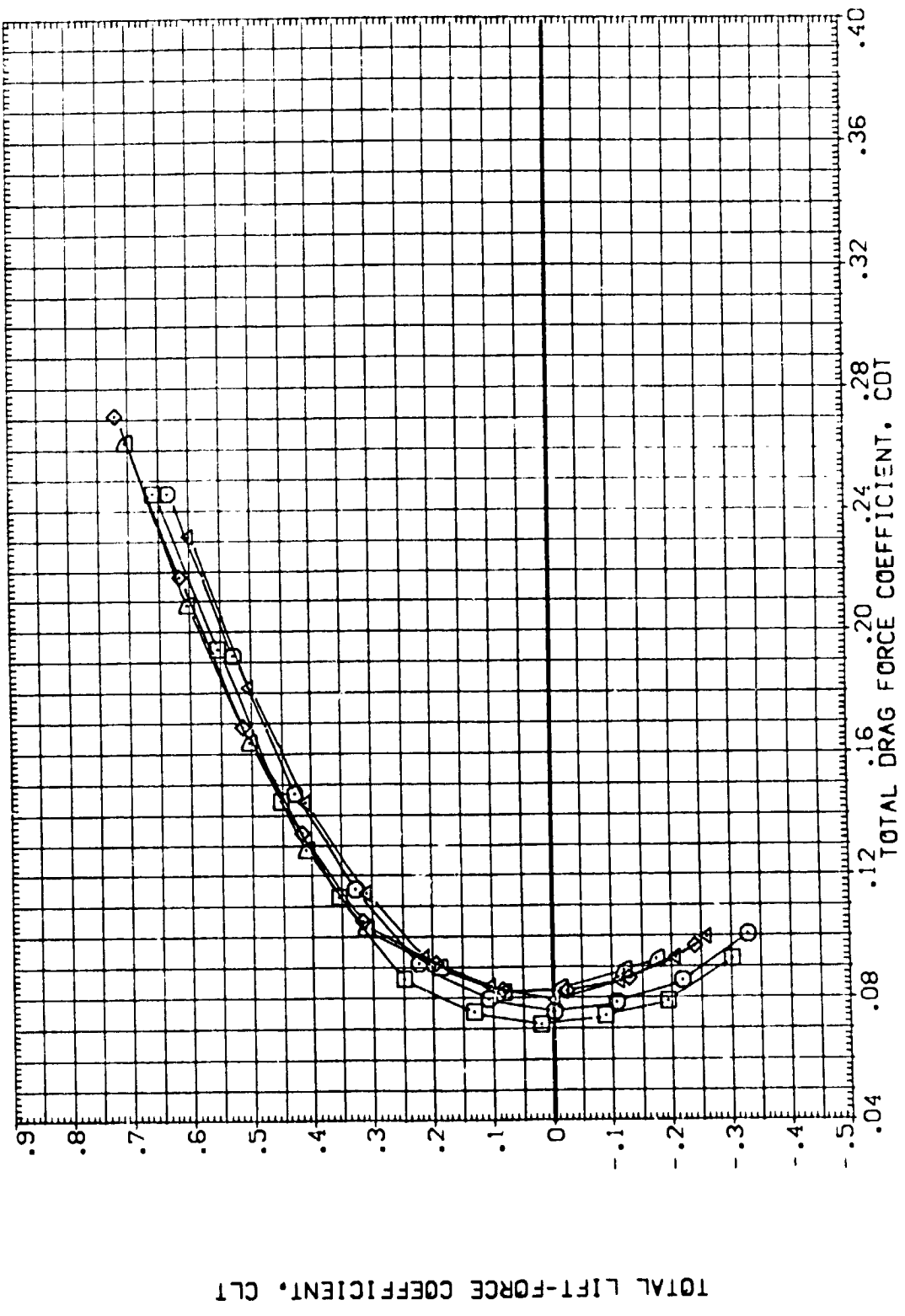


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MAC 11 .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GE0119)	ARC 66-709 QAS9 0111A-(N24)	.000	.000	-11.700	SREF .8053 SQ.FT.
(GE022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(GE023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 FT.
(GE0119)	ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(GE022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(GE023)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

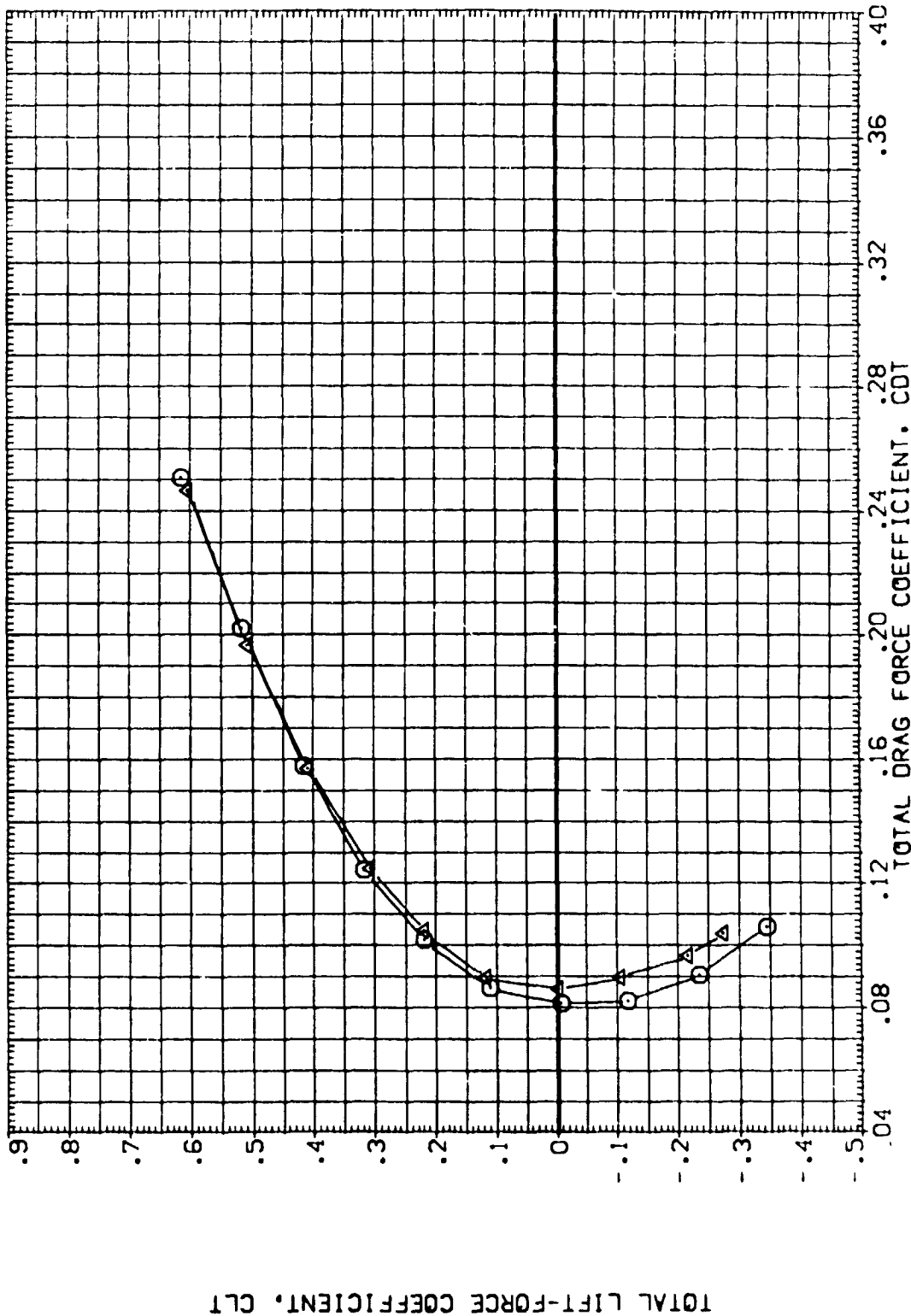


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(D)MAC = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 DAS9 DA11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	ARC 66-70J DAS3 DA11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 DAS9 DA11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(GER019)	ARC 66-709 DAS9 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	XMRP 12.6255 IN.
(GER022)	ARC 66-709 DAS9 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(GER023)	ARC 66-709 DAS9 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

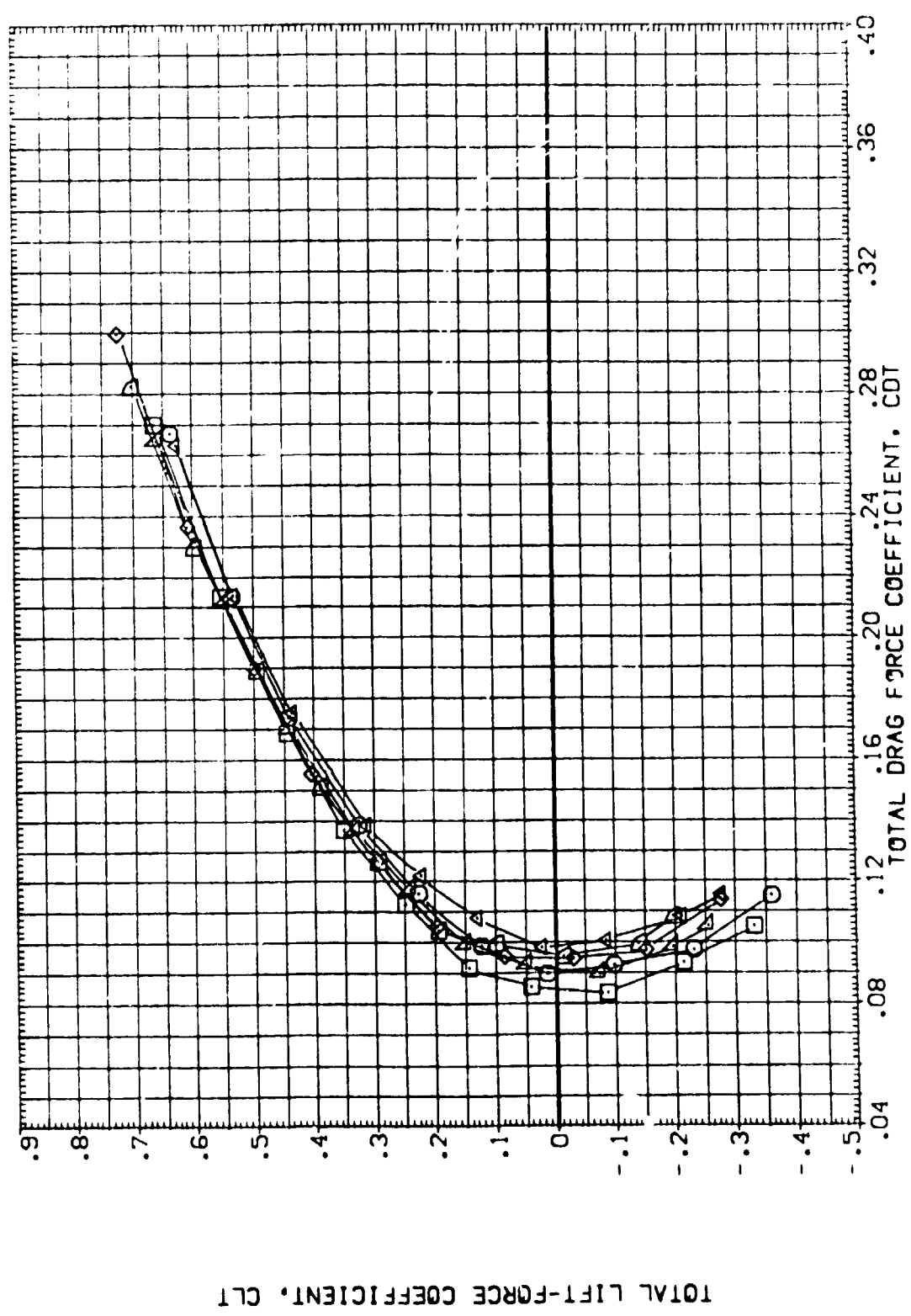


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER019) ARC 66-709 QAS9 0111A-N24

(GER022) DATA NOT AVAILABLE

(GER023) DATA NOT AVAILABLE

(GER019) ARC 66-709 QAS9 0111A-N24 (ADJUSTED FOR TARES)

(GER022) DATA NOT AVAILABLE

(GER023) DATA NOT AVAILABLE

BETA ELEVON BDF LAP

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

REFERENCE INFORMATION

SREF 6053 50. FT.

LREF 5936 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

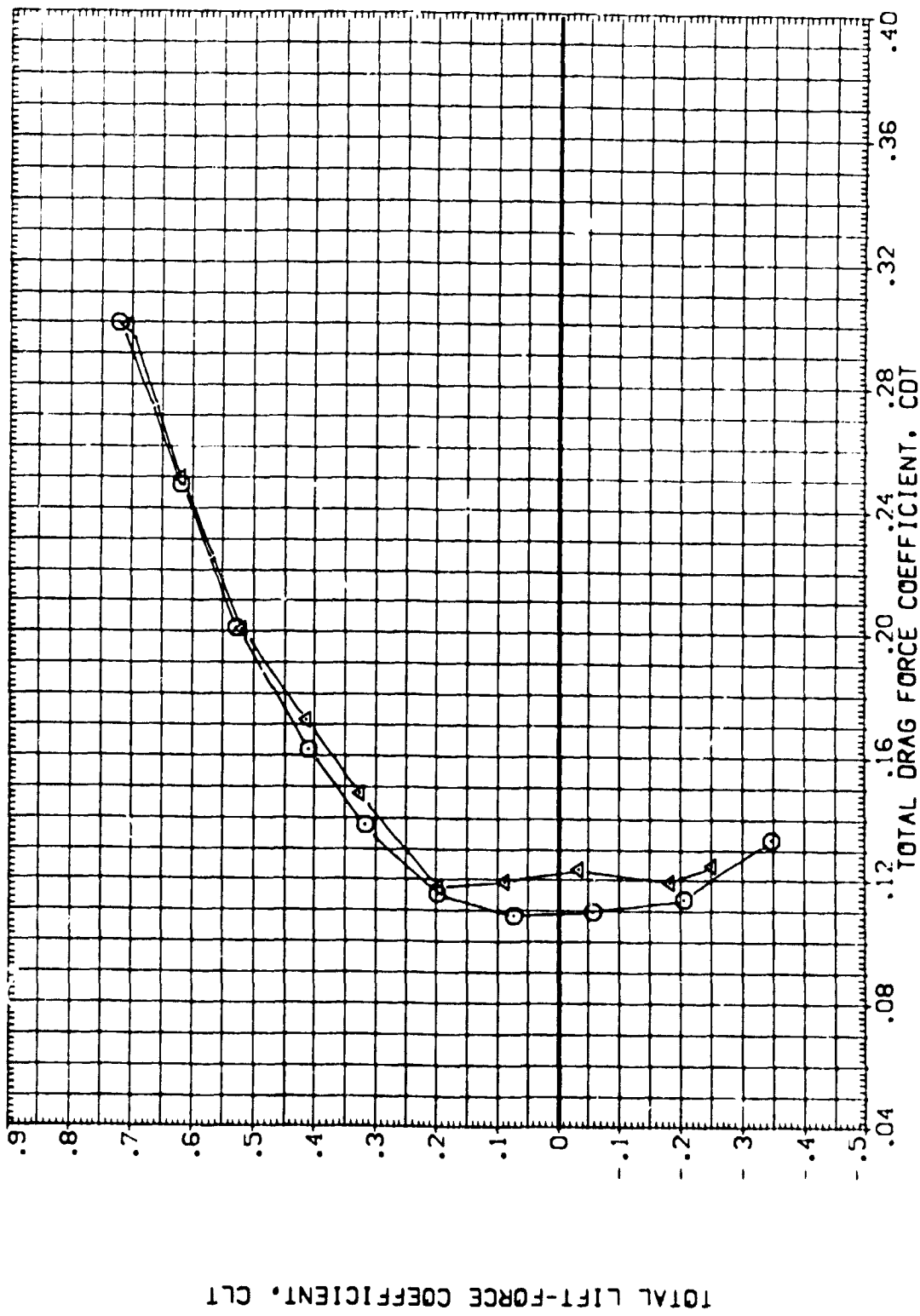


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GE R019)	ARC 66-705 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(GE R022)	ARC 66-708 0A59 0A11A-(N24)	.000	.000	.000	LREF .5835 FT.
(GE R023)	ARC 66-708 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT. IN.
(GE R019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(GE R022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(GE R023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

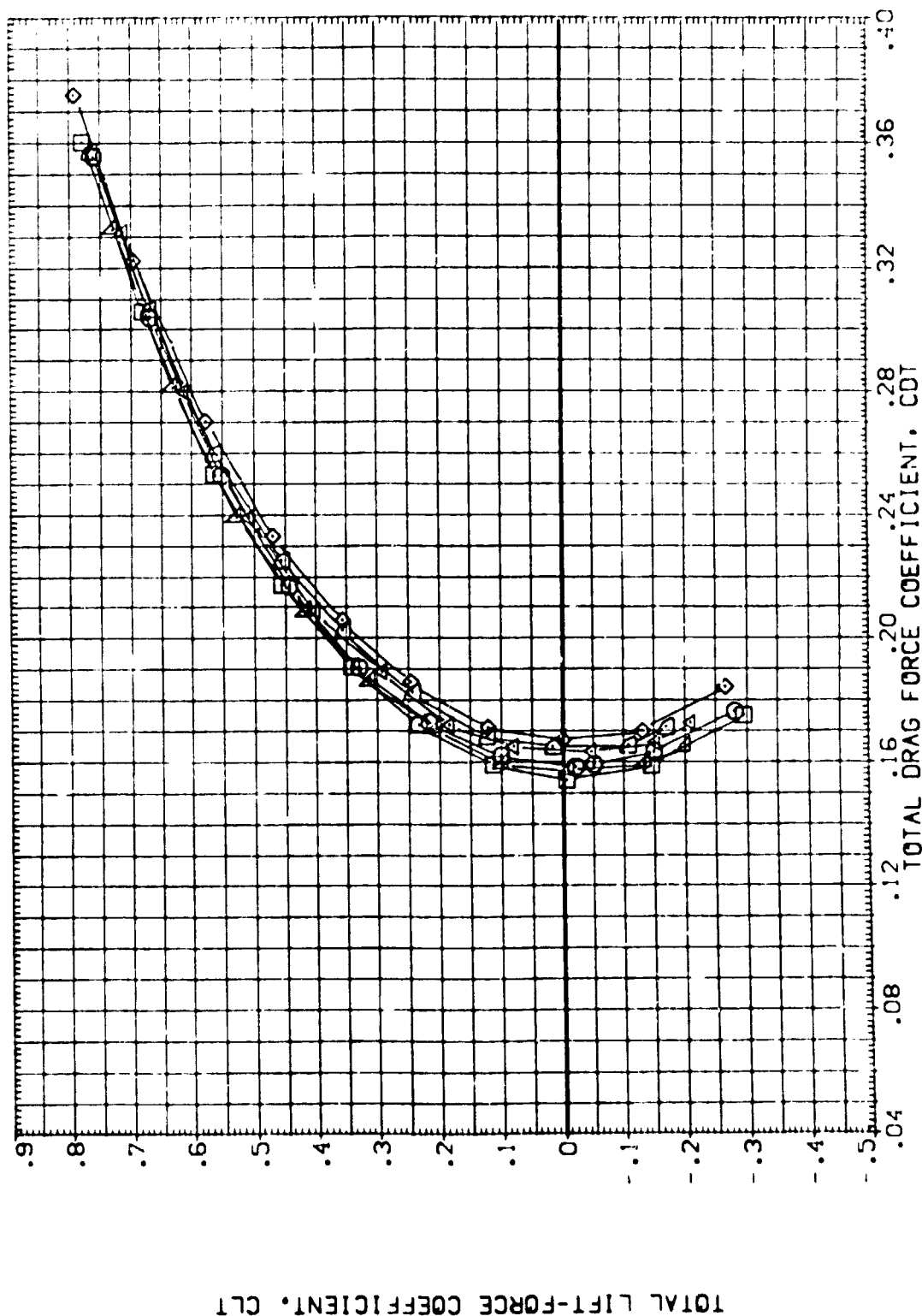


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MAC 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GE RO19]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
[GE RO22]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
[GE RO23]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
[GE RO19]	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	XMRP 12.6255 IN.
[GE RO22]	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
[GE RO23]	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3150 IN.
					SCALE .0150

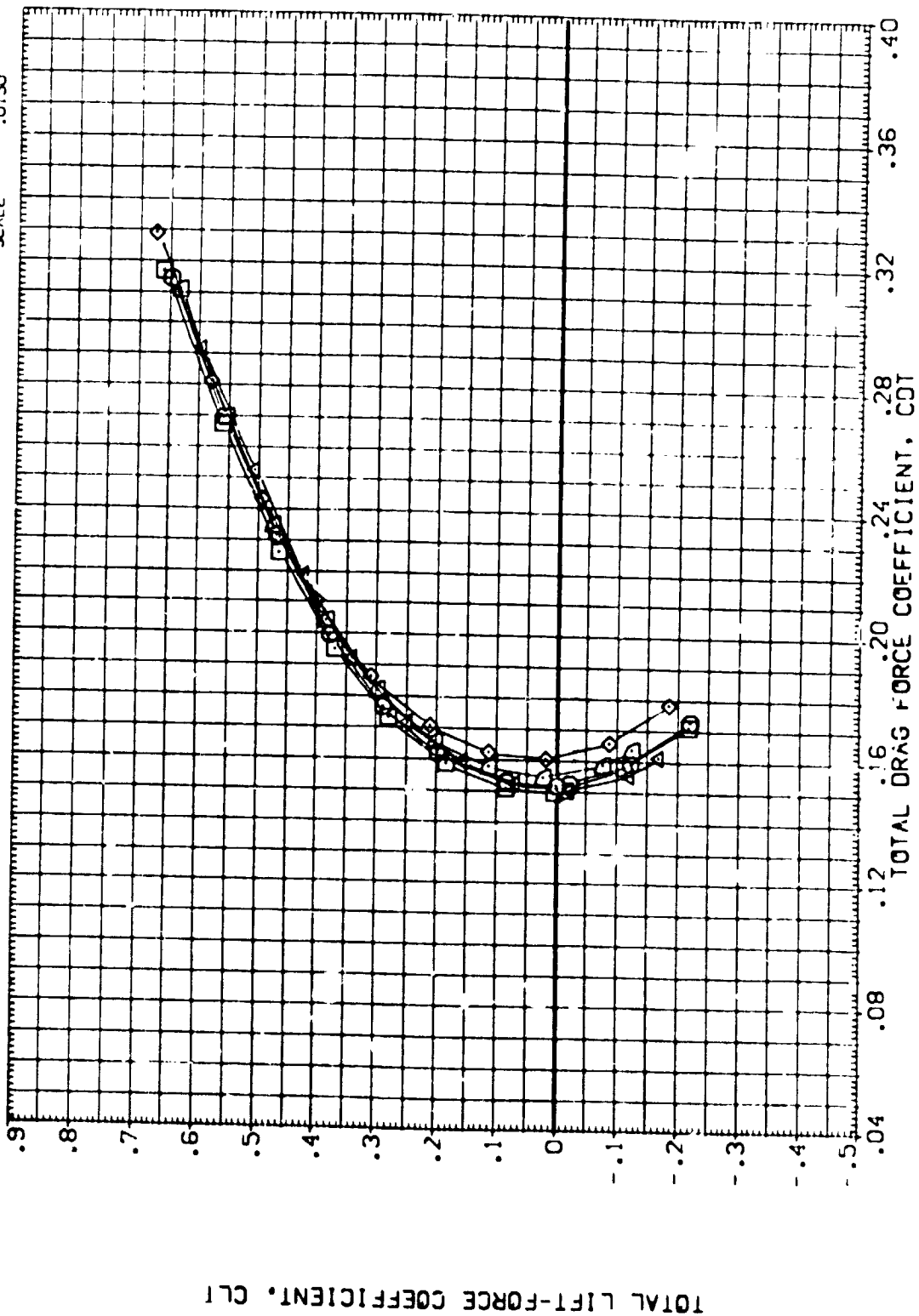


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

CHOMAC = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 DA59 DA11A-(N24)	.000	.000	16.300	BREF 1.171C
(ZER019)	ARC 66-709 DA59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	ARC 66-709 DA59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(ZER023)	ARC 66-709 DA59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

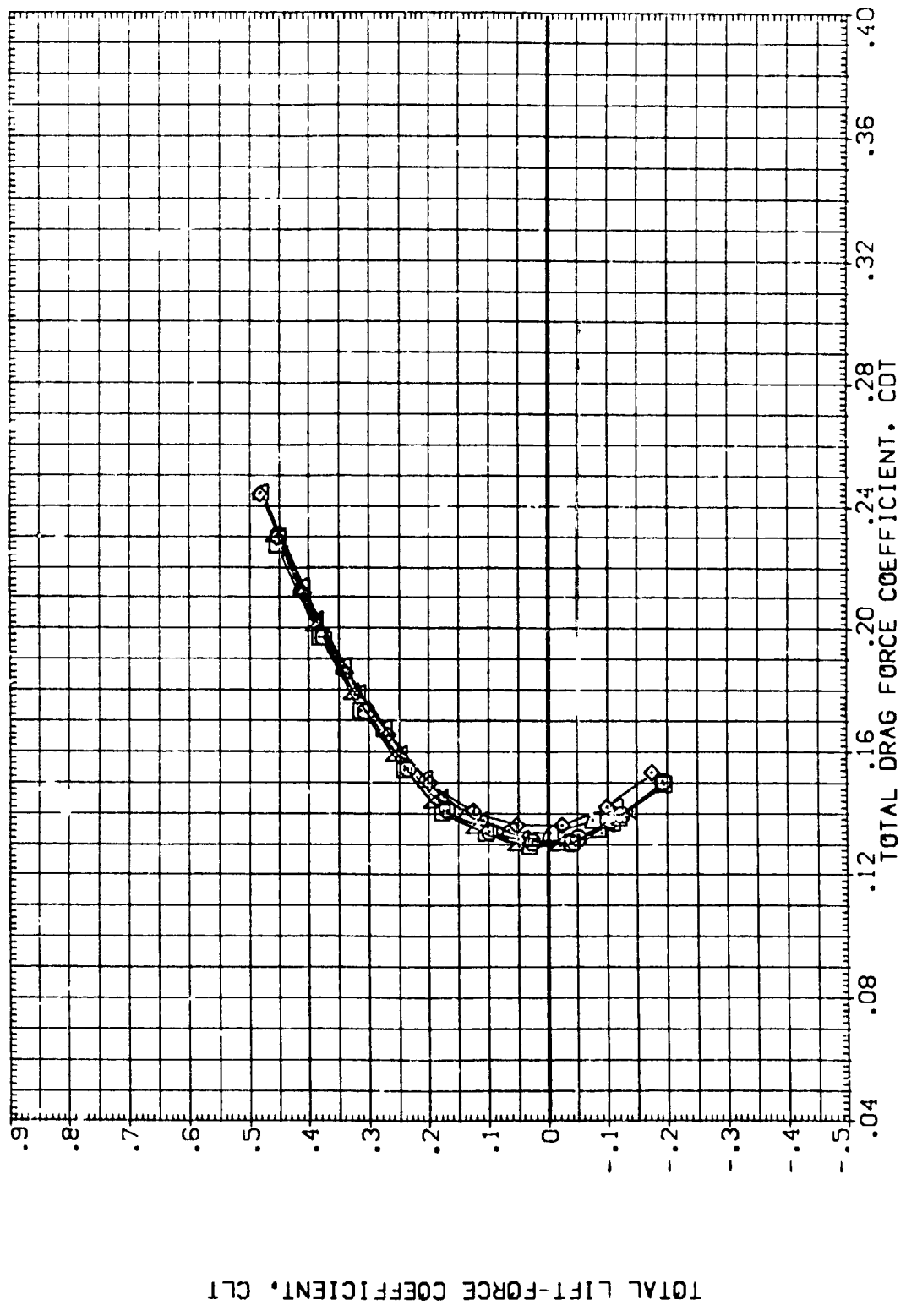


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(1)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 OAS9 011A-N24	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	ARC 66-709 OAS9 011A-N24	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 OAS9 011A-N24	.000	.000	16.300	BREF 1.1710 FT.
(3RC019)	ARC 66-709 OAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(3RC022)	ARC 66-709 OAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(3RC023)	ARC 66-709 OAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

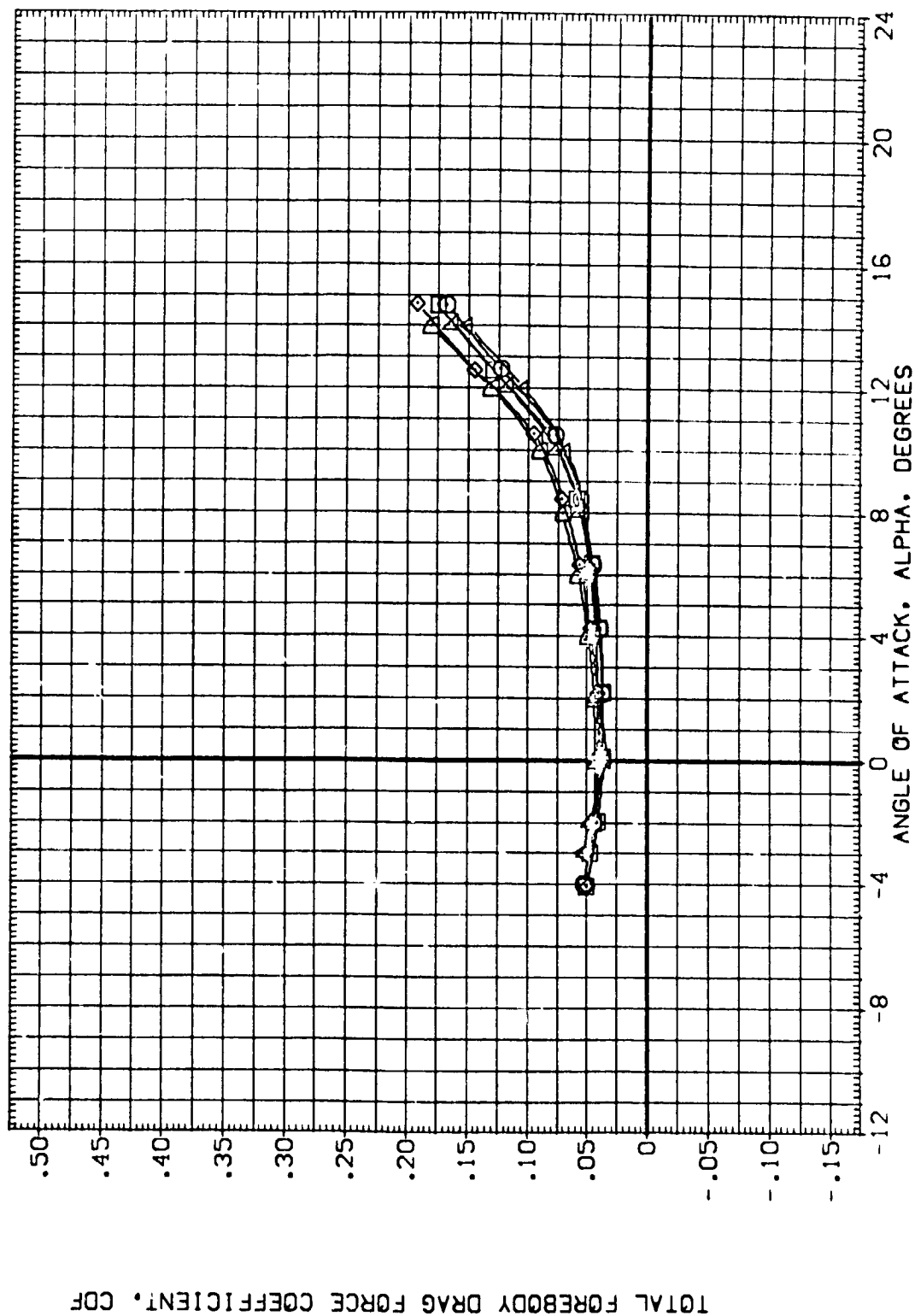


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(AJMAC) = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GER019) DATA NOT AVAILABLE
 (GER022) ARC 66-709 0A59 0A11A-(N24)
 (GER023) ARC 66-709 0A59 0A11A-(N24)
 (3ER019) DATA NOT AVAILABLE
 (3ER022) DATA NOT AVAILABLE
 (3ER023) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDF LAP
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300

REFERENCE INFORMATION
 SREF 6053 SQ.FT.
 LREF .5935 FT.
 XMRP 1.1710 IN.
 YMRP 12.6255 IN.
 ZMRP .0000 IN.
 SCALE .3750 IN.
 .C150

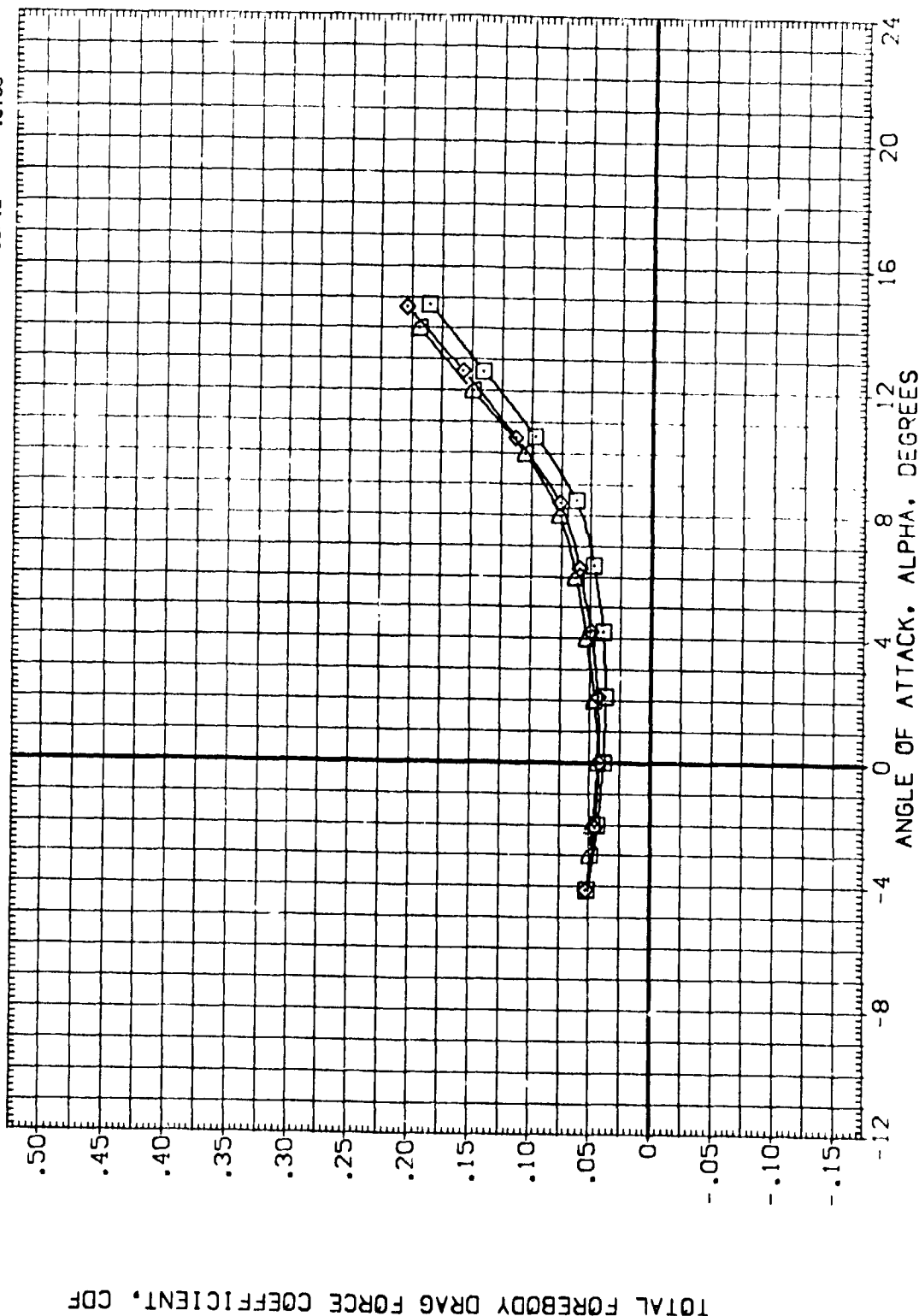


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-N24	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	ARC 66-709 0A59 0A11A-N24	.000	.000	.000	LREF .5835 FT.
(GER023)	ARC 66-709 0A59 0A11A-N24	.000	.000	16.300	CREF 1.171C IN.
(GER019)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(GER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .000C IN.
(GER023)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

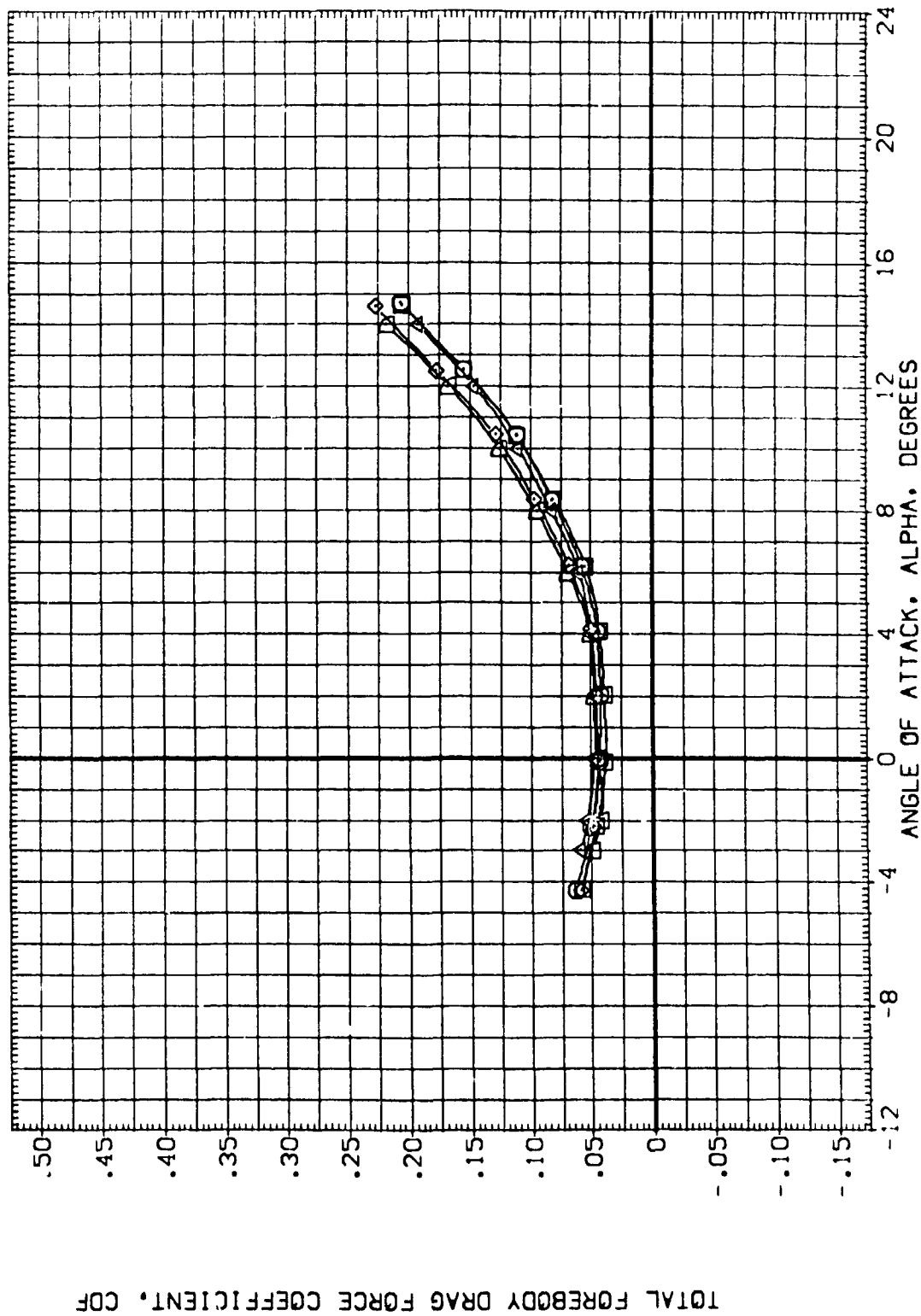


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .80

DATA SET SYMBOL: (GER019) (GER022) (GER023) (GER019) (GER022) (GER023)

CONFIGURATION DESCRIPTION: ARC 66-709 CLASS 0A11A-(N24) DATA NOT AVAILABLE ARC 66-709 CLASS 011A-N24 (ADJUSTED FOR TARES) DATA NOT AVAILABLE

BETA: .000 .000 .000 .000 .000 .000 .000 .000

ELEVON: .000 .000 .000 .000 .000 .000 .000 .000

BOFLAP: -11.700 .000 16.300 -11.700 .000 16.300

REFERENCE INFORMATION: SREF: .6053 SQ.FT. LREF: .5935 FT. BREF: 1.1710 FT. XMRP: 12.6255 IN. YMRP: .0000 IN. ZMRP: -.3750 IN. SCALE: 0.50

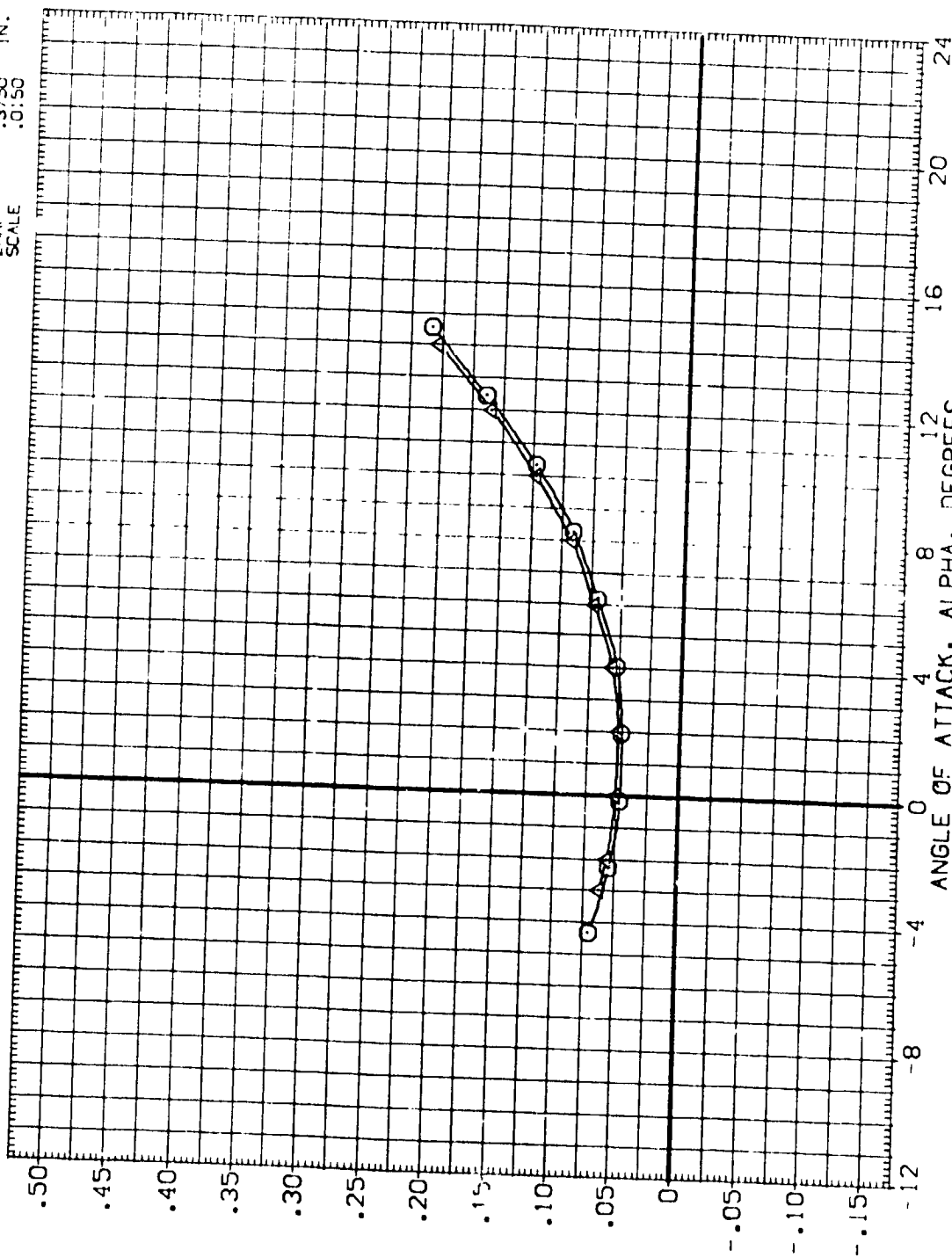


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(0)MACH - .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GE R019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GE R022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GE R023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(GE R019)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6755 IN.
(GE R022)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(GE R023)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

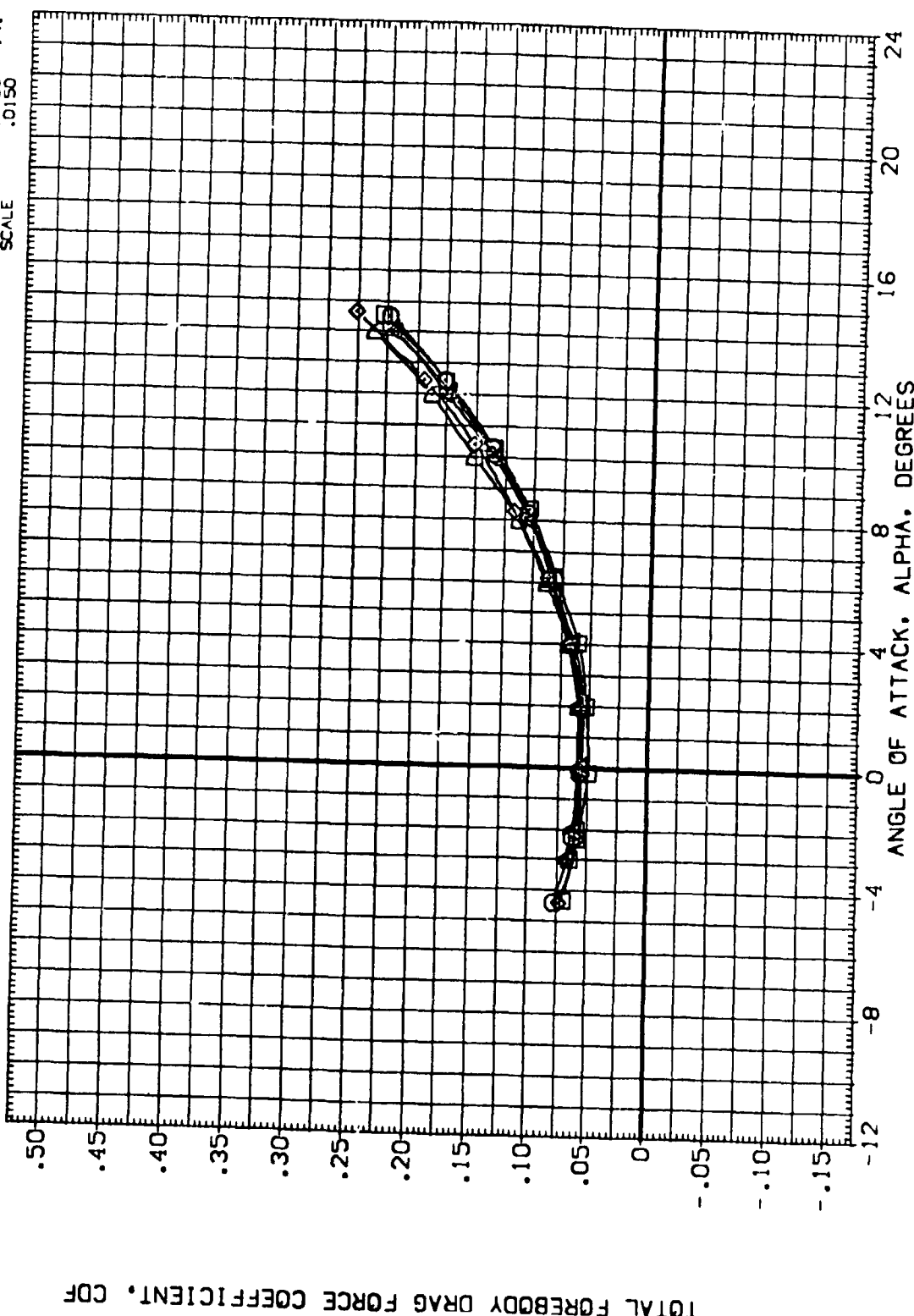


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES
(C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(06R019)	ARC 66-709 0459 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(06R022)	DATA NOT AVAILABLE	.000	.000	.000	REF .5935 FT.
(06R023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 IN.
(06R019)	ARC 66-709 0459 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(06R022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(06R023)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

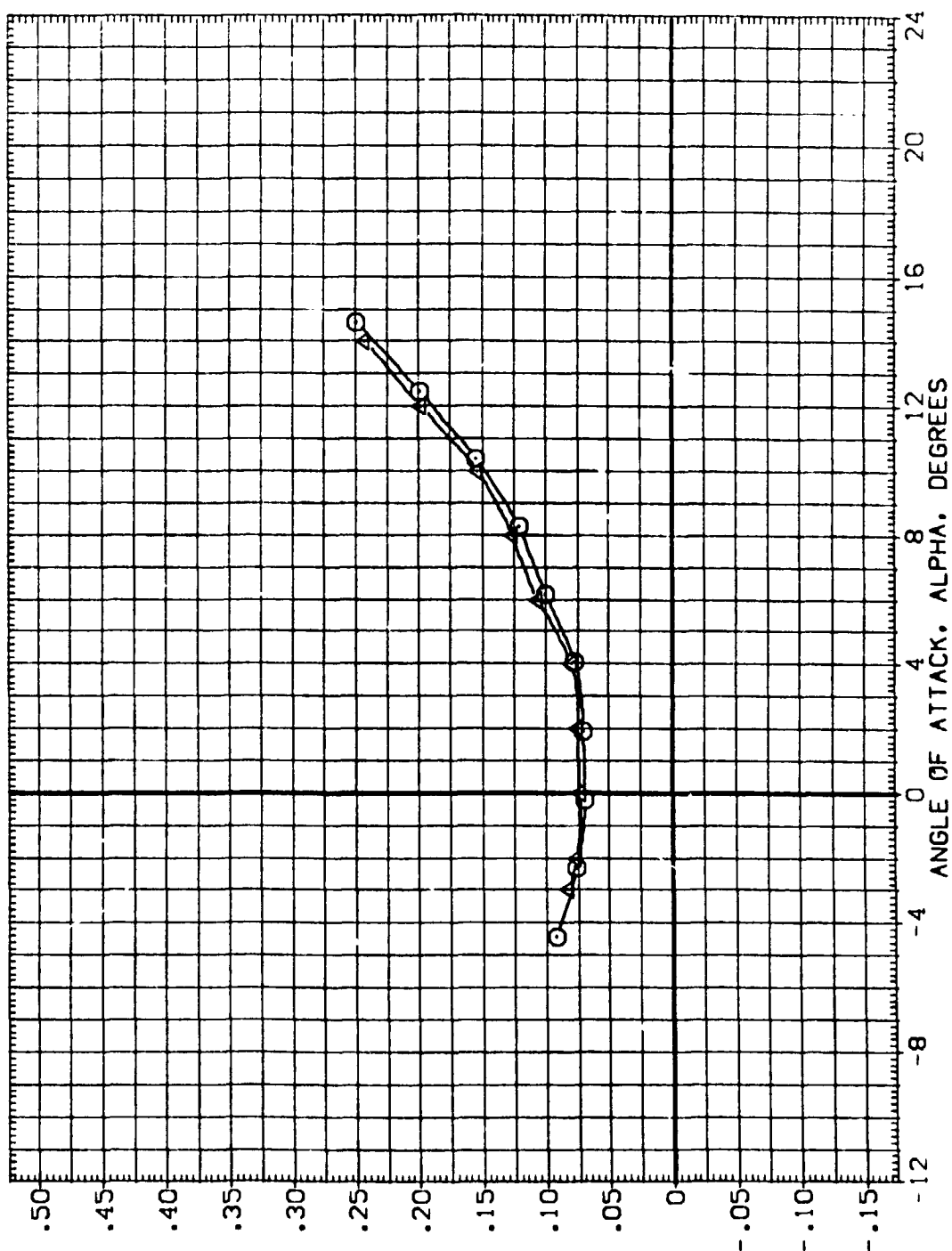


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOF LAP	REFERENCE INFORMATION
(3E019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(3E022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(3E023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	BREF 1.1710 IN.
(3E019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(3E022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(3E023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

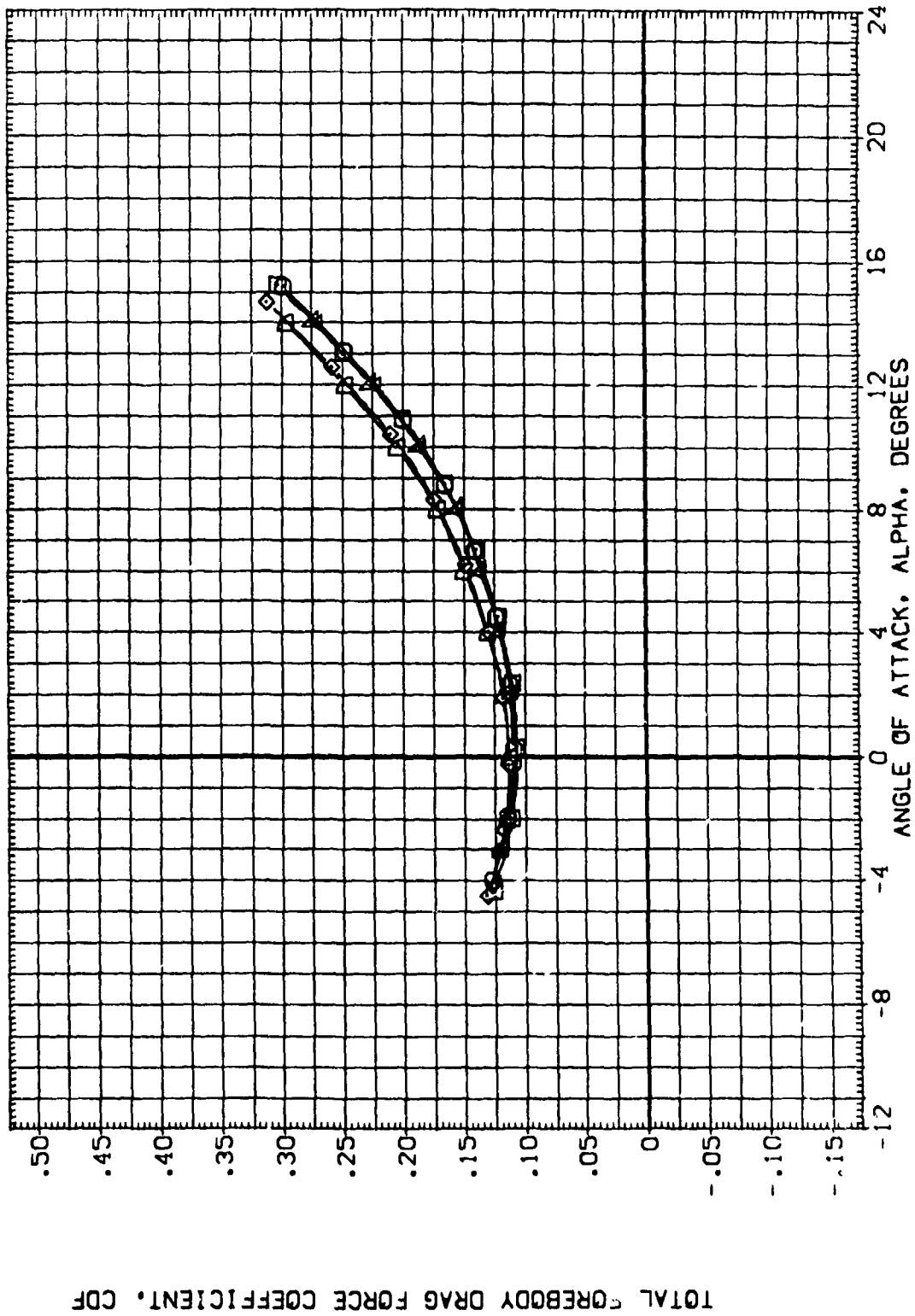


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

GMACH = 1.20

DATA SET SYMBOL

[GER019]
[GER022]
[GER023]
[3ER019]
[3ER022]
[3ER023]

CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(N24)
ARC 66-709 0A59 0A11A-(N24)
ARC 66-709 0A59 0A11A-(N24)
ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)
DATA NOT AVAILABLE
ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)

BETA .000
.000
.000
.000
.000
.000

ELEVON .000
.000
.000
.000
.000
.000

BOFLAP -11.700
.000
16.300
-11.700
.000
16.300

REFERENCE INFORMATION
SREF .8053 SQ.F.
LREF .5935 FT.
BREF 1.1710 IN.
XMRP 12.6255 IN.
ZMRP .0000 IN.
SCALE -.3750 IN.
.0150

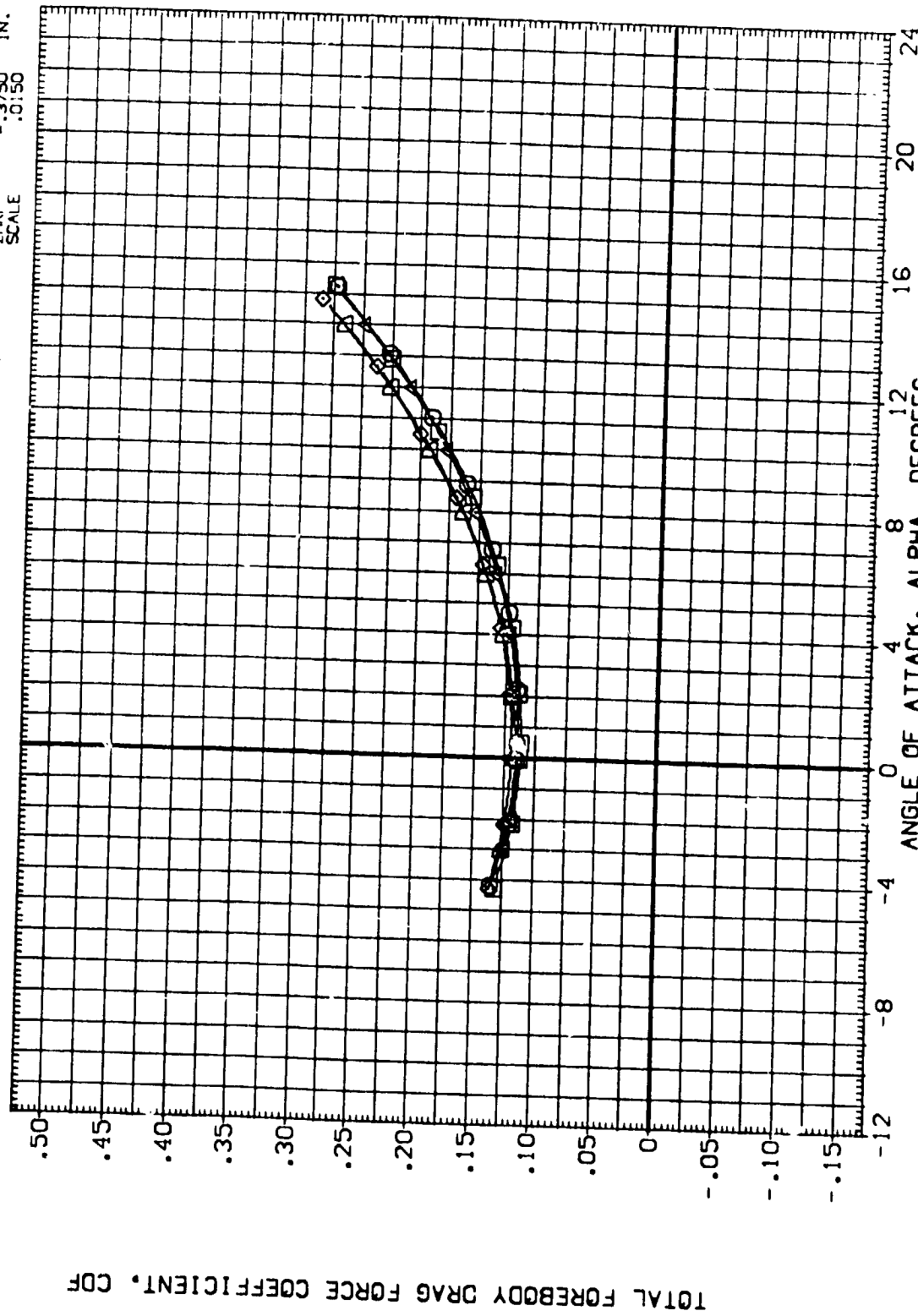


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(M)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BODY FLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BODY FLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	ARC 66-709 0A59 0111A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 0A59 0111A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(GER019)	ARC 66-709 0A59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(GER022)	ARC 66-709 0A59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(GER023)	ARC 66-709 0A59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.

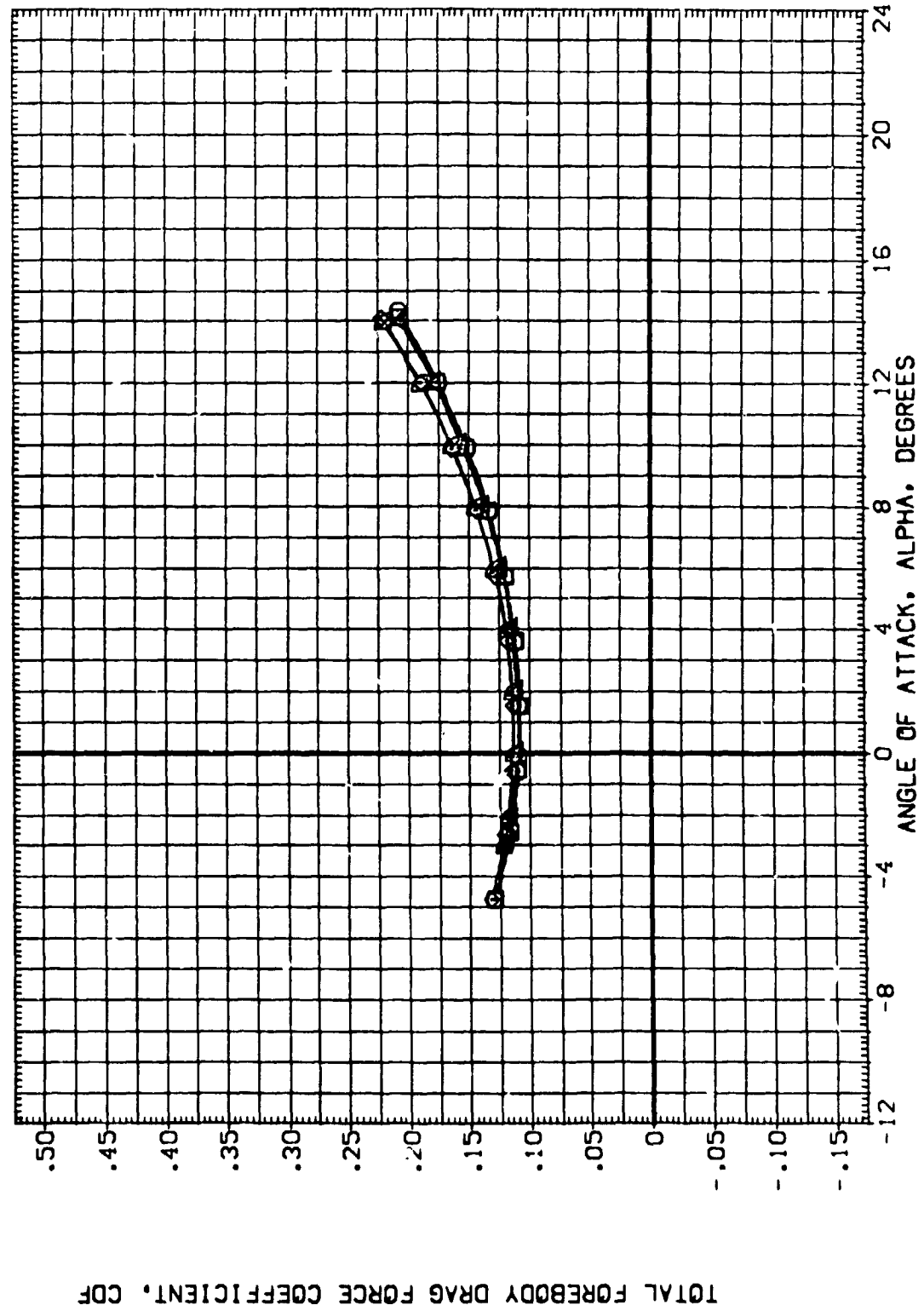


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(1)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-N24	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	ARC 66-709 0A59 0A11A-N24	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 0A59 0A11A-N24	.000	.000	16.300	BREF 1.1710 FT.
(ZER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP -.0000 IN.
(ZER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

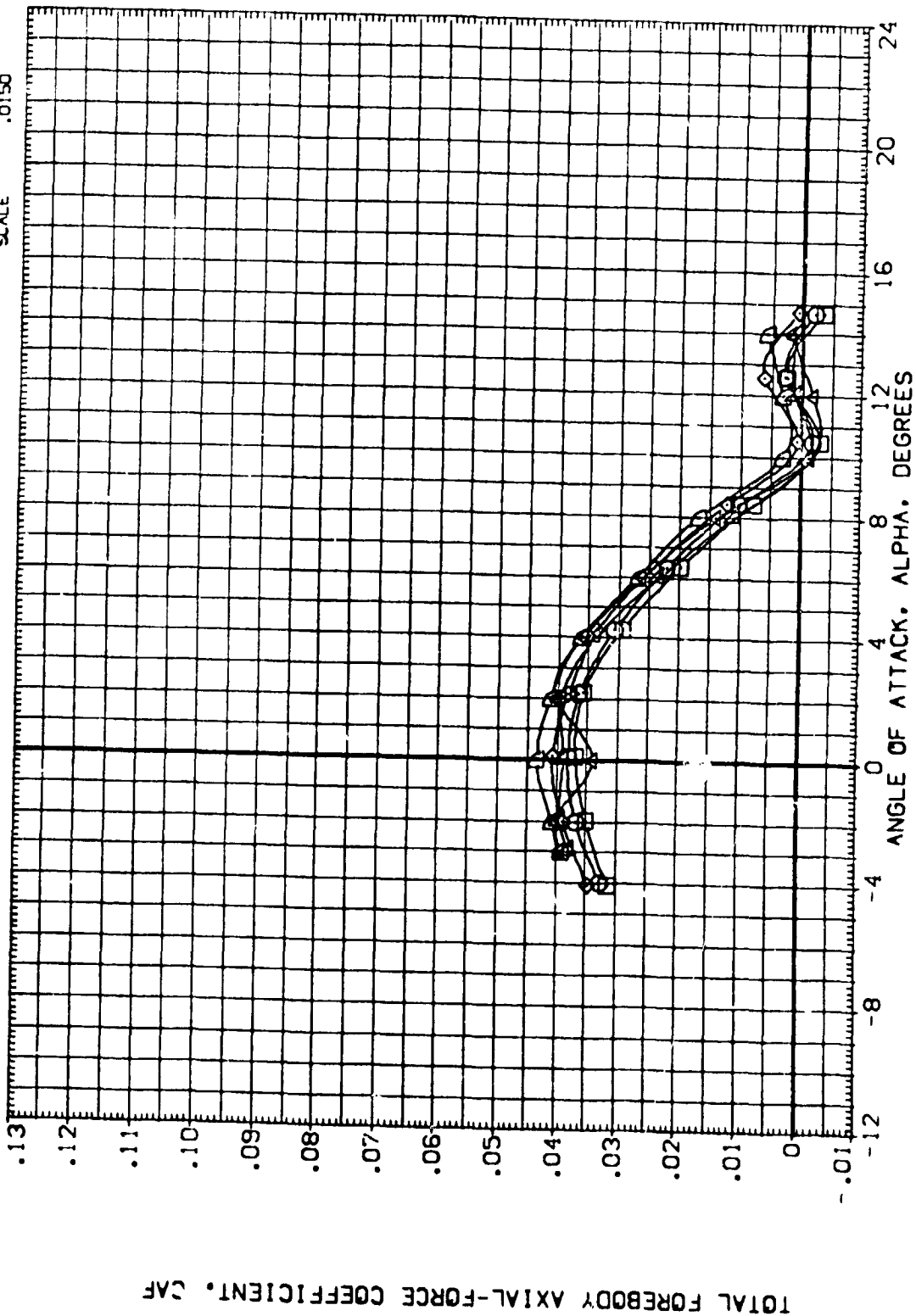


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(ZERO19)	DATA NOT AVAILABLE	.000	.000	-11.700	SREF 6053 SQ.FT.
(ZERO22)	ARC 66-709 DASS DA11A-(N24)	.000	.000	.000	LREF 5935 FT.
(ZERO23)	ARC 66-709 DASS DA11A-(N24)	.000	.000	16.300	BREF 11710 FT.
(ZERO19)	DATA NOT AVAILABLE	.000	.000	-11.700	XTRP 12.6235 IN.
(ZERO22)	DATA NOT AVAILABLE	.000	.000	.000	YTRP .0000 IN.
(ZERO23)	ARC 66-709 DASS DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZTRP -.3750 IN.
					SCALE .0150

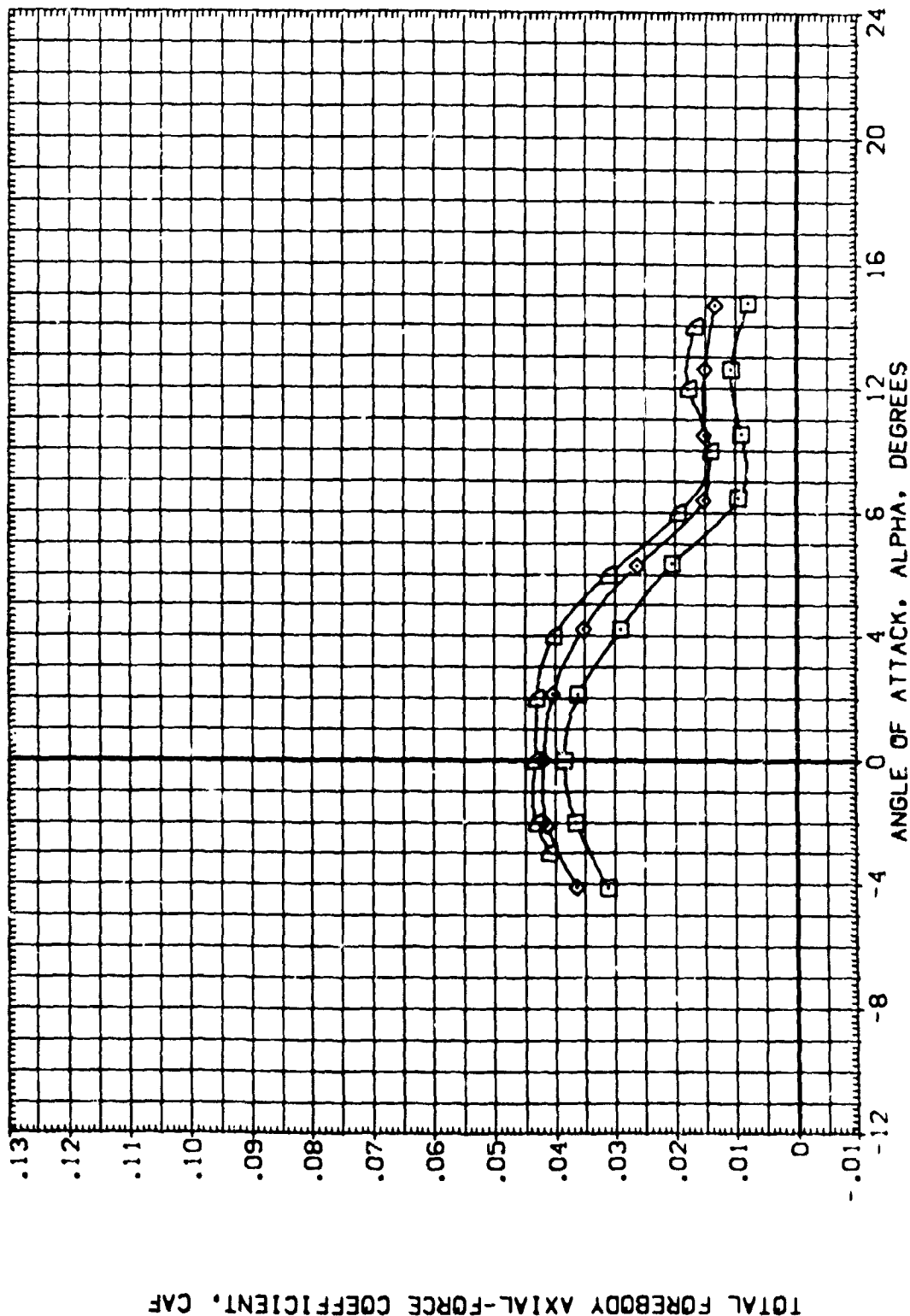


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[GE R019] ARC 66-709 0A59 0A11A-(N24)
 [GE R022] ARC 66-709 0A59 0A11A-(N24)
 [GE R023] ARC 66-709 0A59 0A11A-(N24)
 [X R019] ARC 66-709 0A59 0A11A-(N24)
 [X R022] DATA NOT AVAILABLE
 [X R023] ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

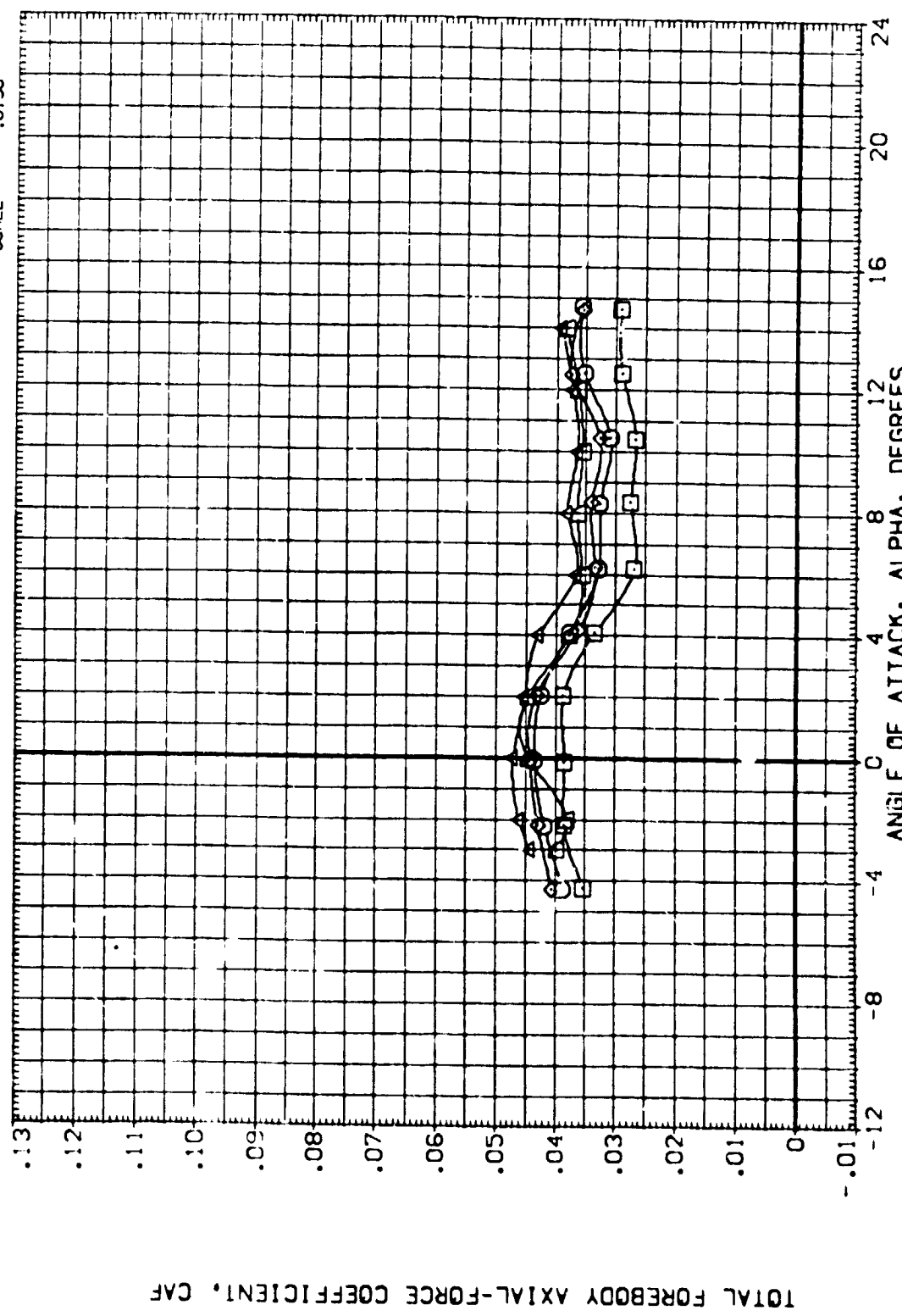


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BODY LAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BODY LAP	REFERENCE INFORMATION
[GE019]	ARC 66-709 OAS9 0111A-N24	.000	.000	-11.700	SREF .6053 SO.FT.
[GE022]	DATA NOT AVAILABLE	.000	.000	.000	UREF .5975 FT.
[GE023]	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 FT. IN.
[GE019]	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6235 IN.
[GE022]	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
[GE023]	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

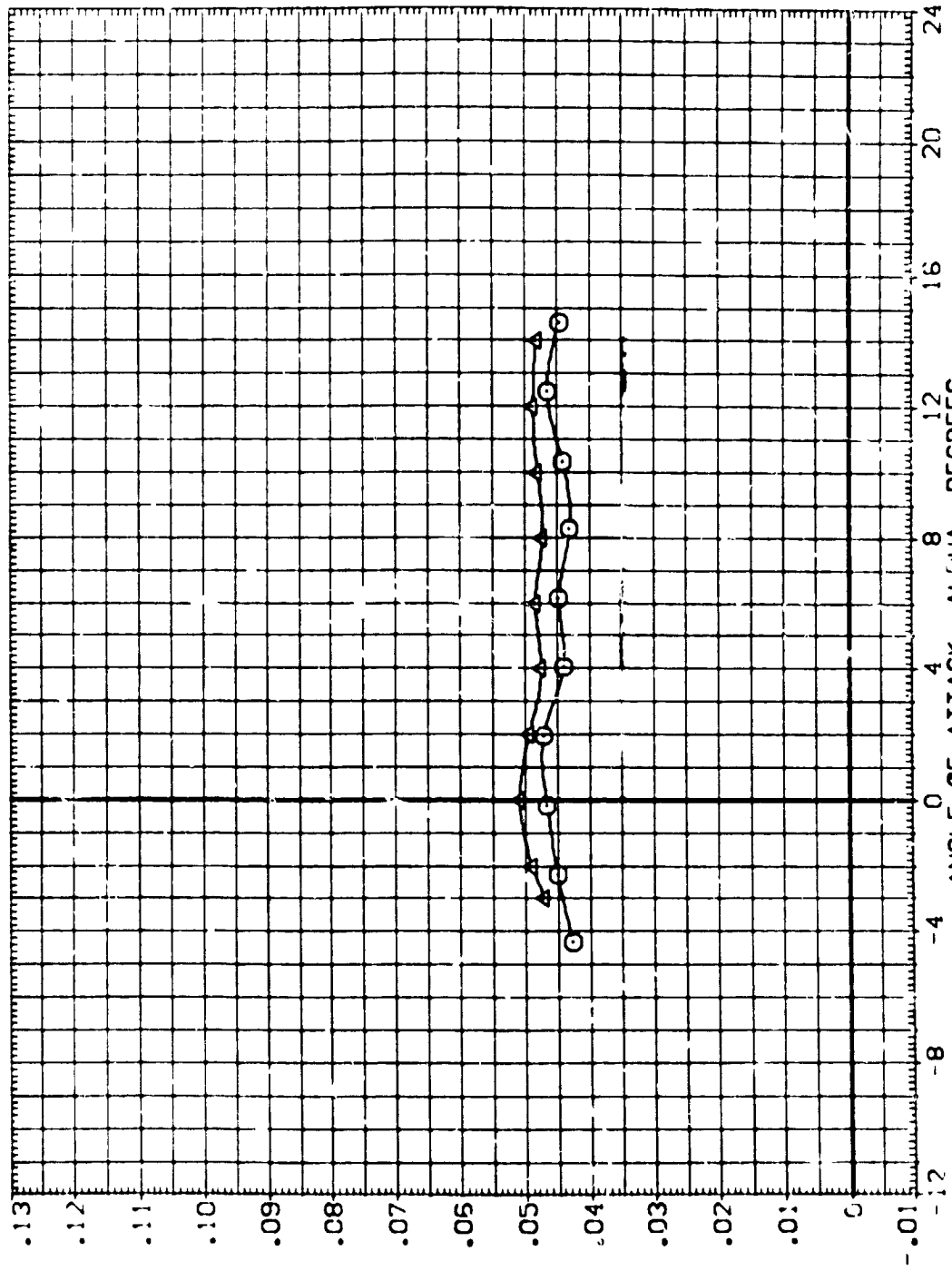


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(GER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.070	-11.700	XMPP 12.6755 IN.
(GER022)	ARC 66-709 0A53 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMPP .0000 IN.
(GER023)	ARC 66-709 0A53 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMPP -.3750 IN.
					SCALE .0150

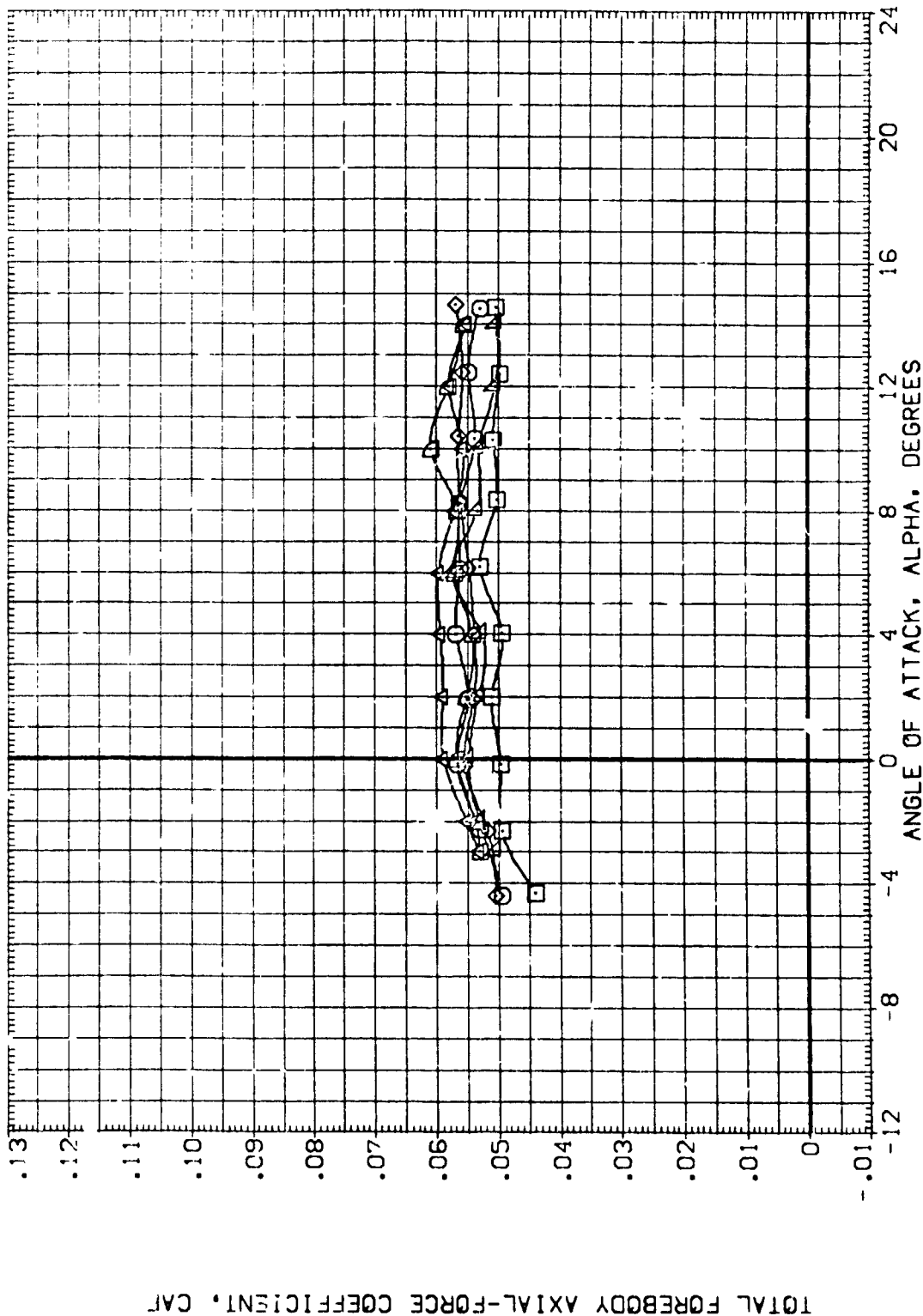


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(CDMACH) = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GER019}	ARC 66-709 CAS9 011A-(N24)	.000	.000	-11.700	SREF .6053 59.5 FT.
{GER022}	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
{GER023}	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 IN.
{XERO19}	ARC 66-709 CAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
{XERO22}	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
{XERO23}	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

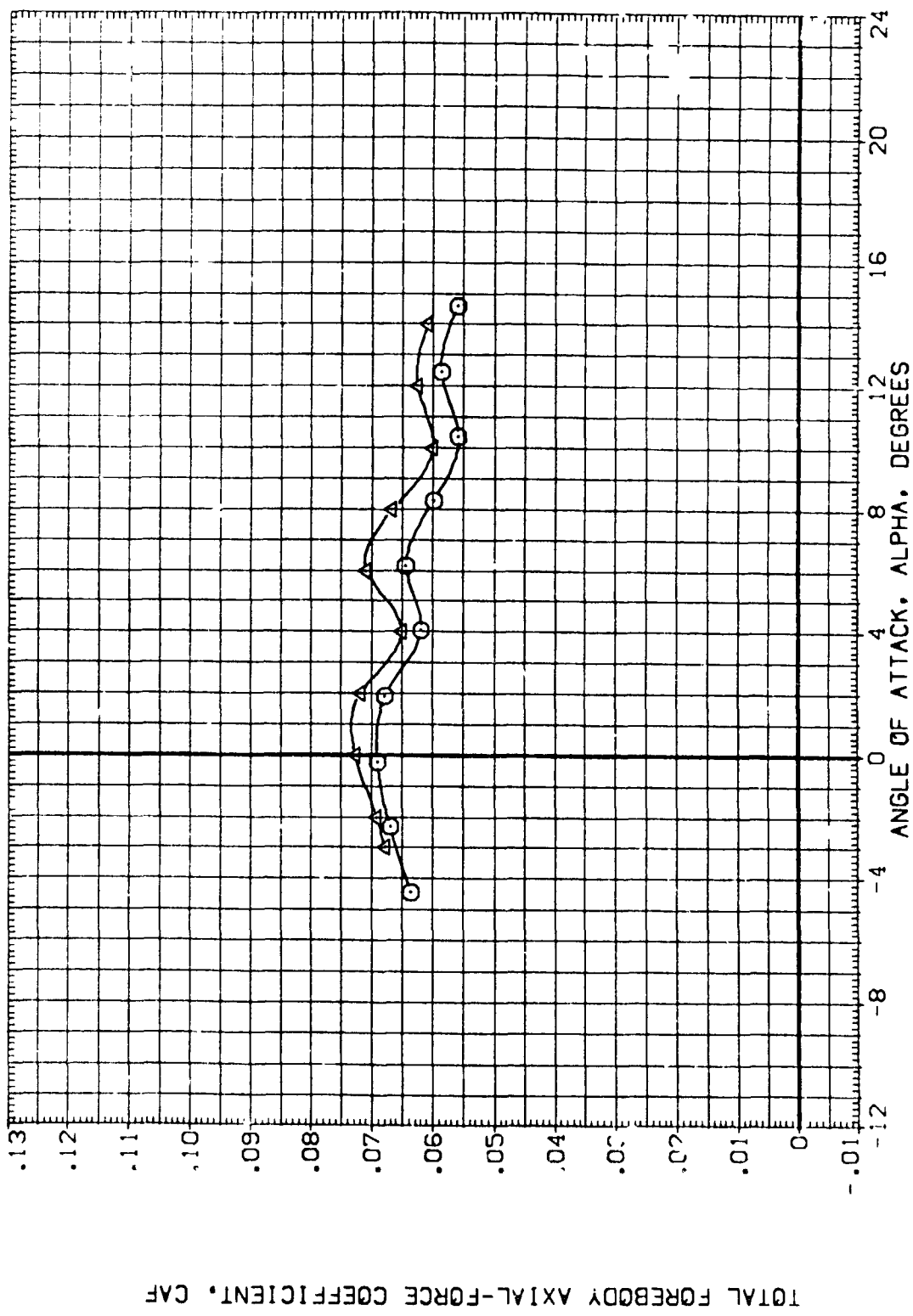
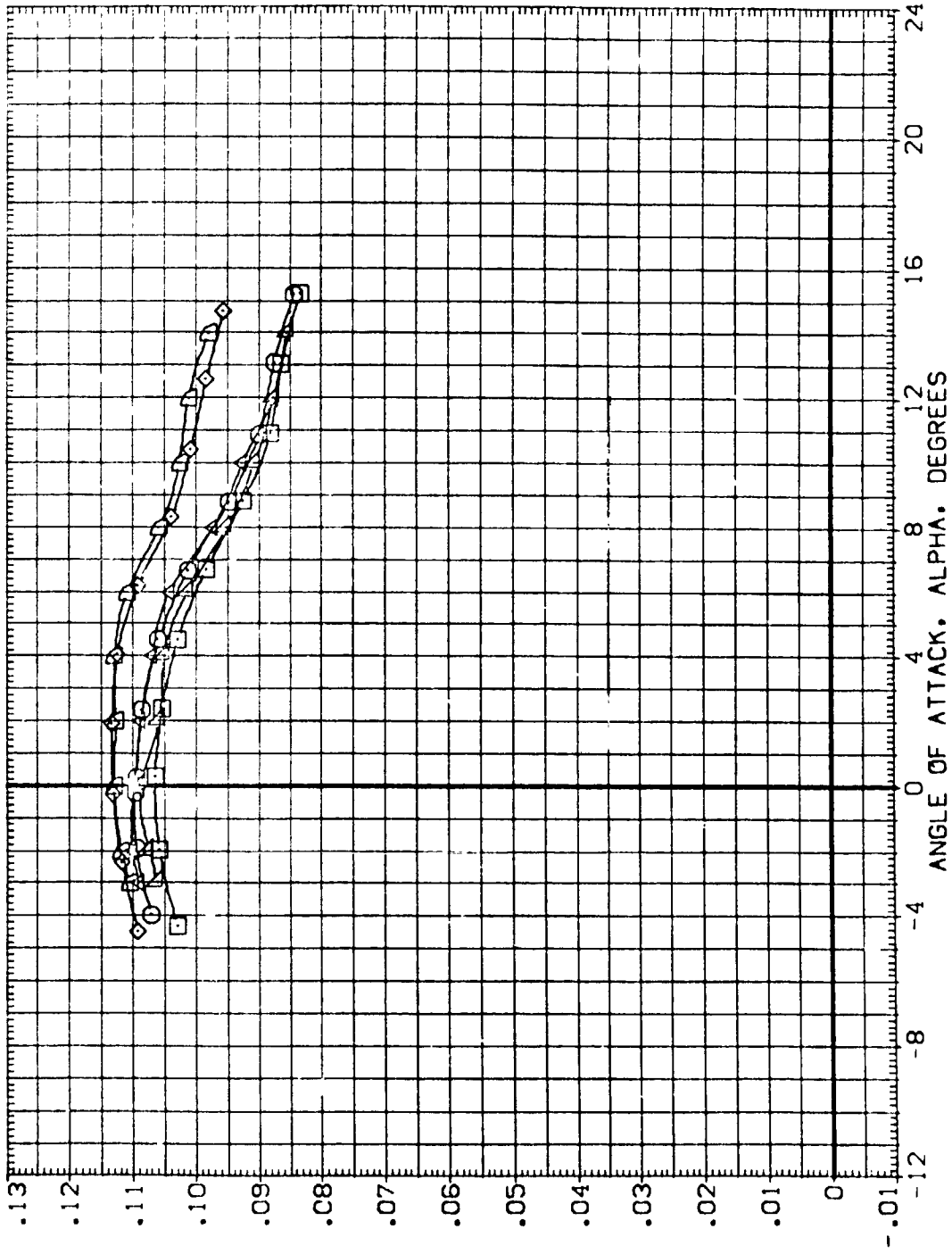


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GFR019)	ARC 66-703 QAS9 Q111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GFR022)	ARC 66-709 QAS9 Q111A-(N24)	.000	.000	.000	LREF .5935 F.T.
(GFR023)	ARC 66-709 QAS9 Q111A-(N24)	.000	.000	16.300	BREF 1.1710 F.T.
(GFR019)	ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(GFR022)	ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(GFR023)	ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -3.150 IN.
					SCALE .0150



TOTAL FOREBODY AXIAL-FORCE COEFFICIENT, CAF

FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

{ GER019 }	ARC 66-709 QAS9 0A11A-(N24)	SREF .6053 SQ.FT.
{ GER022 }	ARC 66-709 QAS9 0A11A-(N24)	LREF .5935 FT.
{ GER023 }	ARC 66-709 QAS9 0A11A-(N24)	BREF 1.1710 FT.
{ XERO19 }	ARC 66-709 QAS9 0A11A-(N24)	XMRP 12.6255 IN.
{ XERO22 }	DATA NOT AVAILABLE	YMRP .0300 IN.
{ XERO23 }	ARC 66-709 QAS9 0A11A-N24 (ADJUSTED FOR TARES)	ZMRP -.3750 IN.
		SCALE .0150

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	.000	.000
.000	.000	16.300
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300

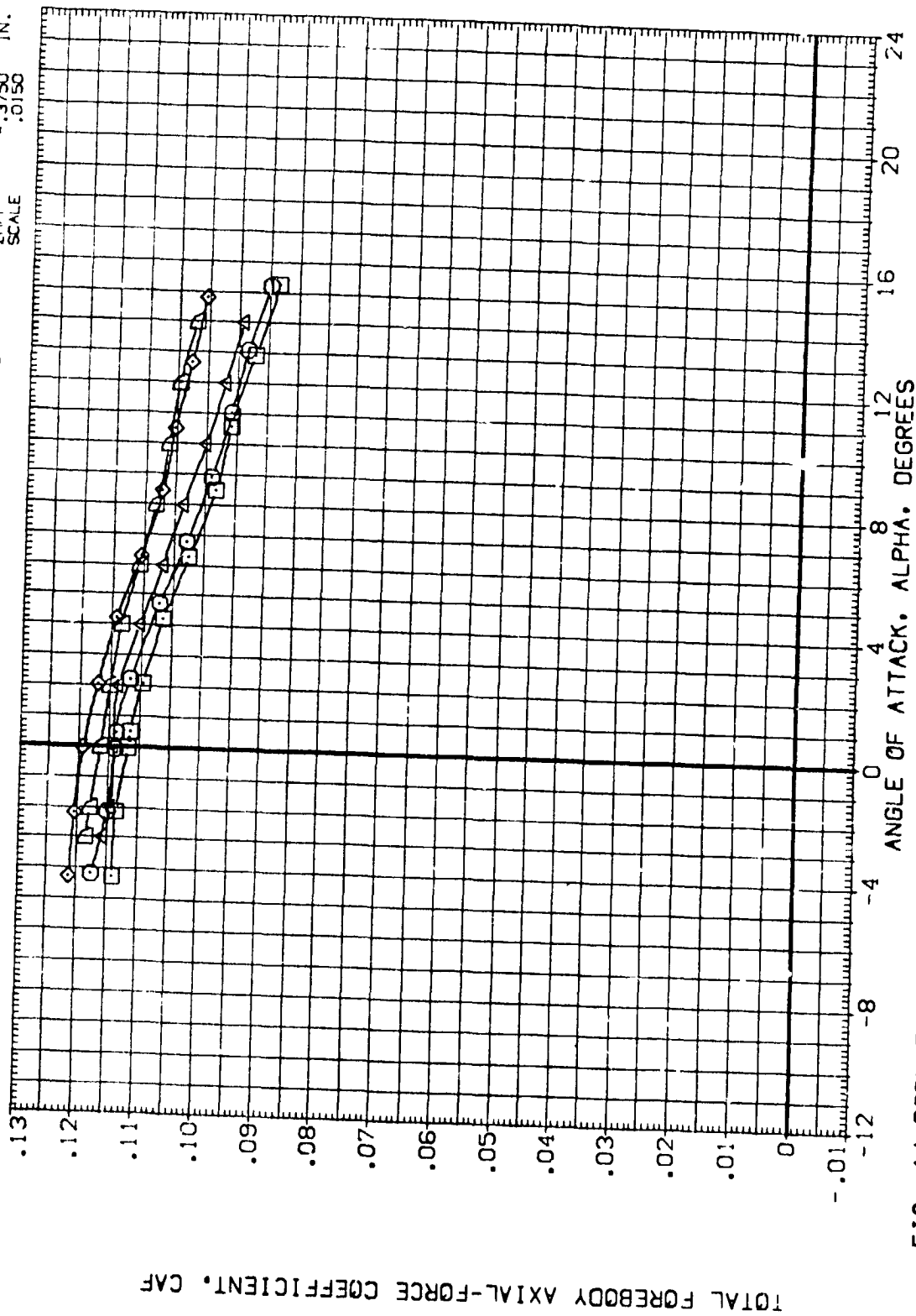


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES
(H)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-708 DA59 D111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER022)	ARC 66-708 DA59 D111A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-708 DA59 D111A-(N24)	.000	.000	16.300	BREF 1.1717 IN.
(GER019)	ARC 66-708 DA59 D111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255
(GER022)	ARC 66-708 DA59 D111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP .0000
(GER023)	ARC 66-708 DA59 D111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	SCALE .3750 IN.
					.0150

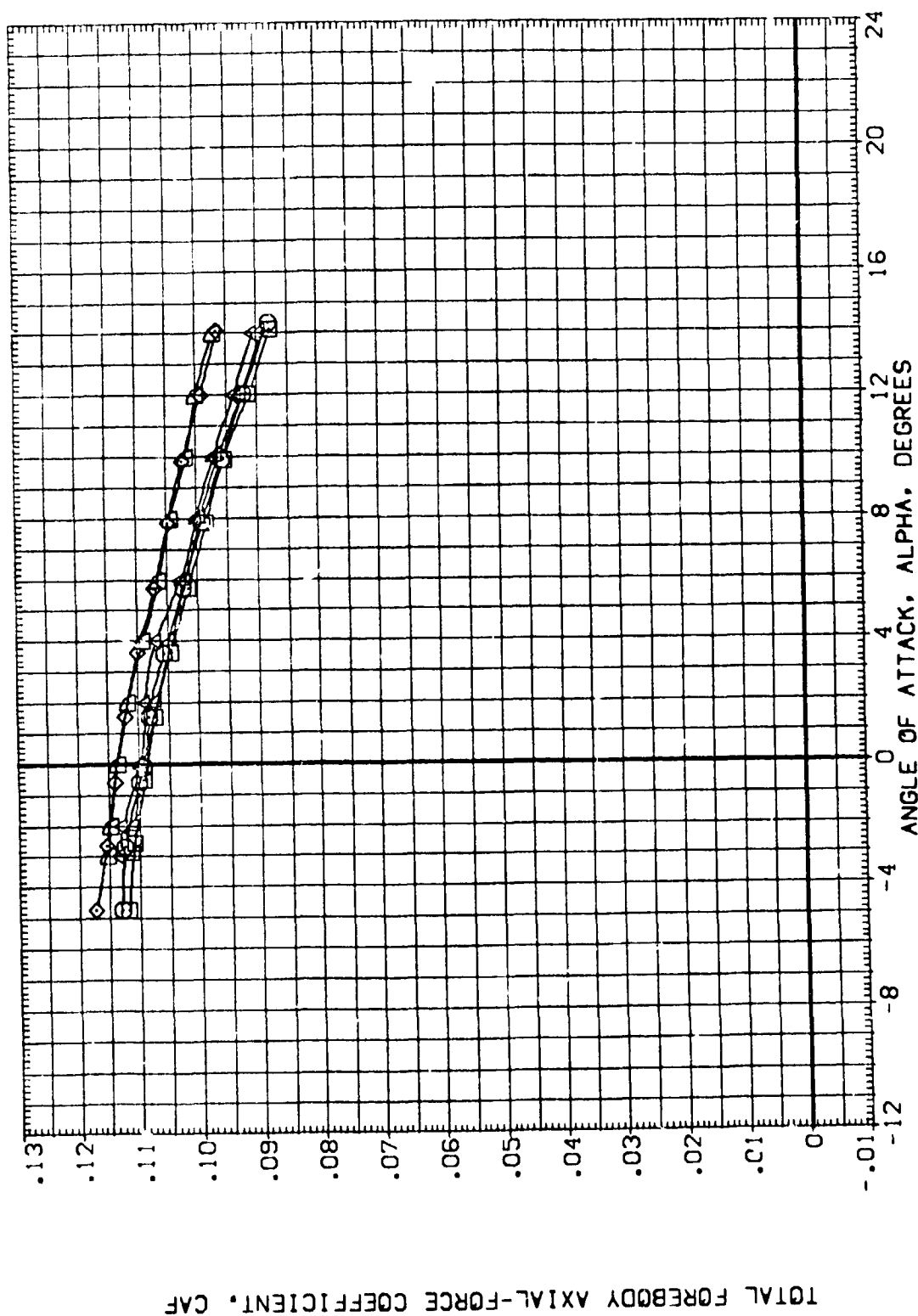


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(1)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(GER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(ZER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(ZER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

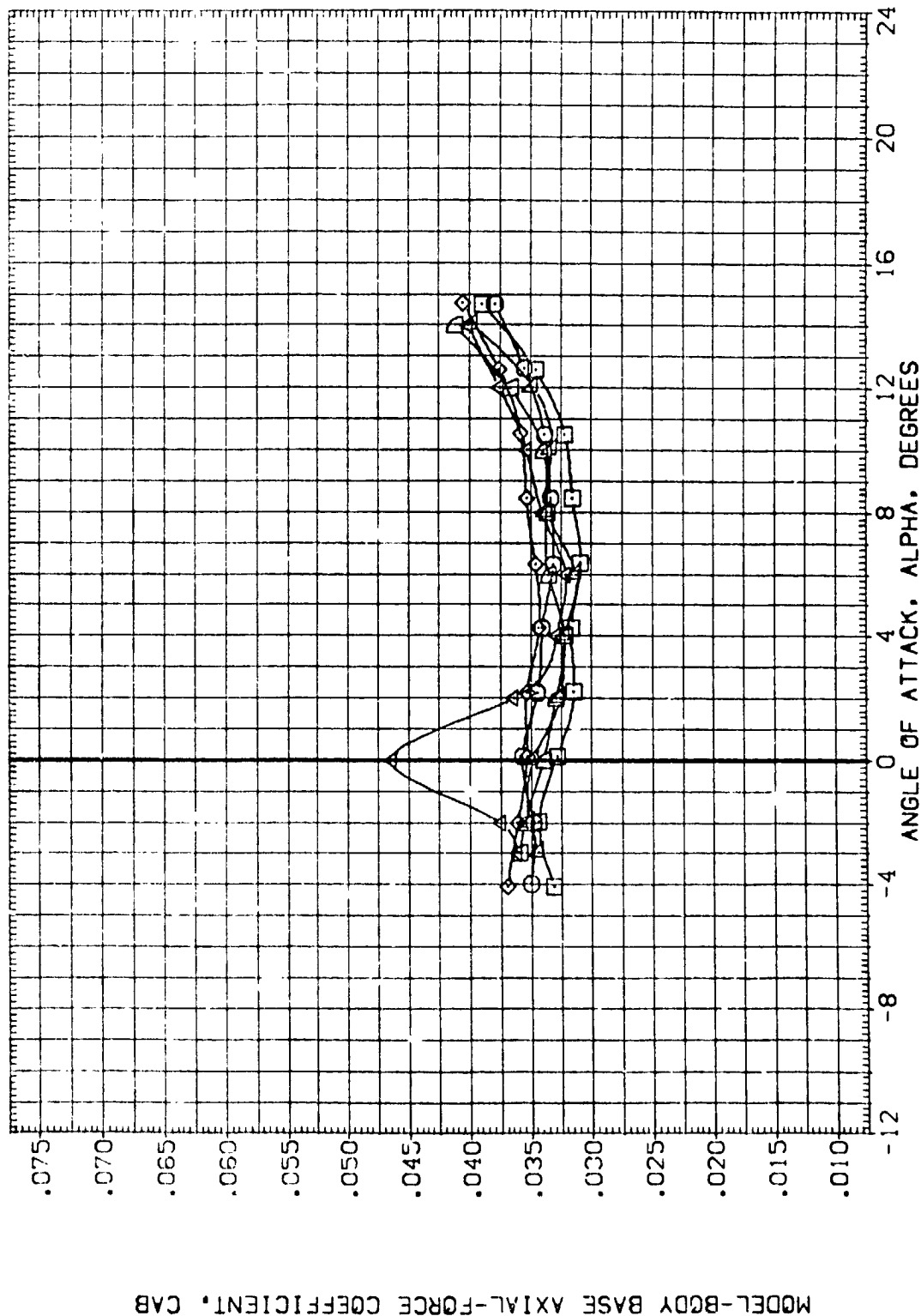


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(GER019) DATA 1 JT AVAILABLE .000 .000 -11.700 SREF .6053 50.FT.

(GER022) ARC 66-709 D459 DAI1A-(N24) .000 .000 .000 LREF .5936 FT.

(GER023) ARC 66-709 D459 DAI1A-(N24) .000 .000 16.300 BREF 1.1710 IN.

(GER019) DATA NOT AVAILABLE .000 .000 -11.700 XMRP 12.6255 IN.

(GER022) DATA NOT AVAILABLE .000 .000 .000 YMRP .0000 IN.

(GER023) ARC 66-709 D459 DAI1A-(N24) (ADJUSTED FOR TARES) .000 .000 16.300 ZMRP -.3750 IN.

SCALE .0150

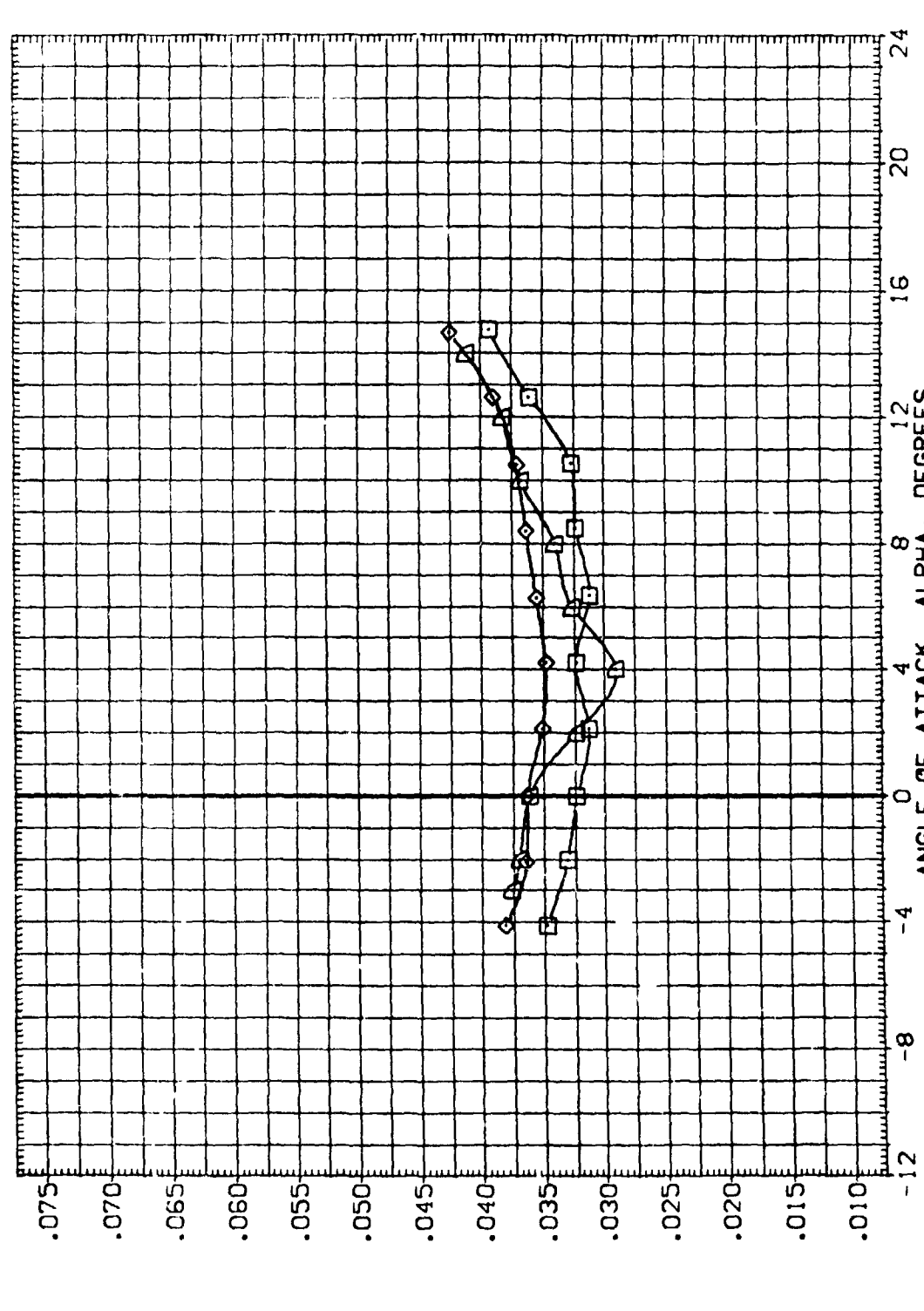


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOF LAP	REFERENCE INFORMATION
(GER019)	ARC 66-709 CASE 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER027)	ARC 66-709 CASE 0111A-(N24)	.000	.000	.000	LREF .5935 FT.
(GER023)	ARC 66-709 CASE 0111A-(N24)	.000	.000	16.300	BREF 1.1710 IN.
(GER019)	ARC 66-709 CASE 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
(GER022)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP .0000 IN.
(GER023)	ARC 66-709 CASE 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

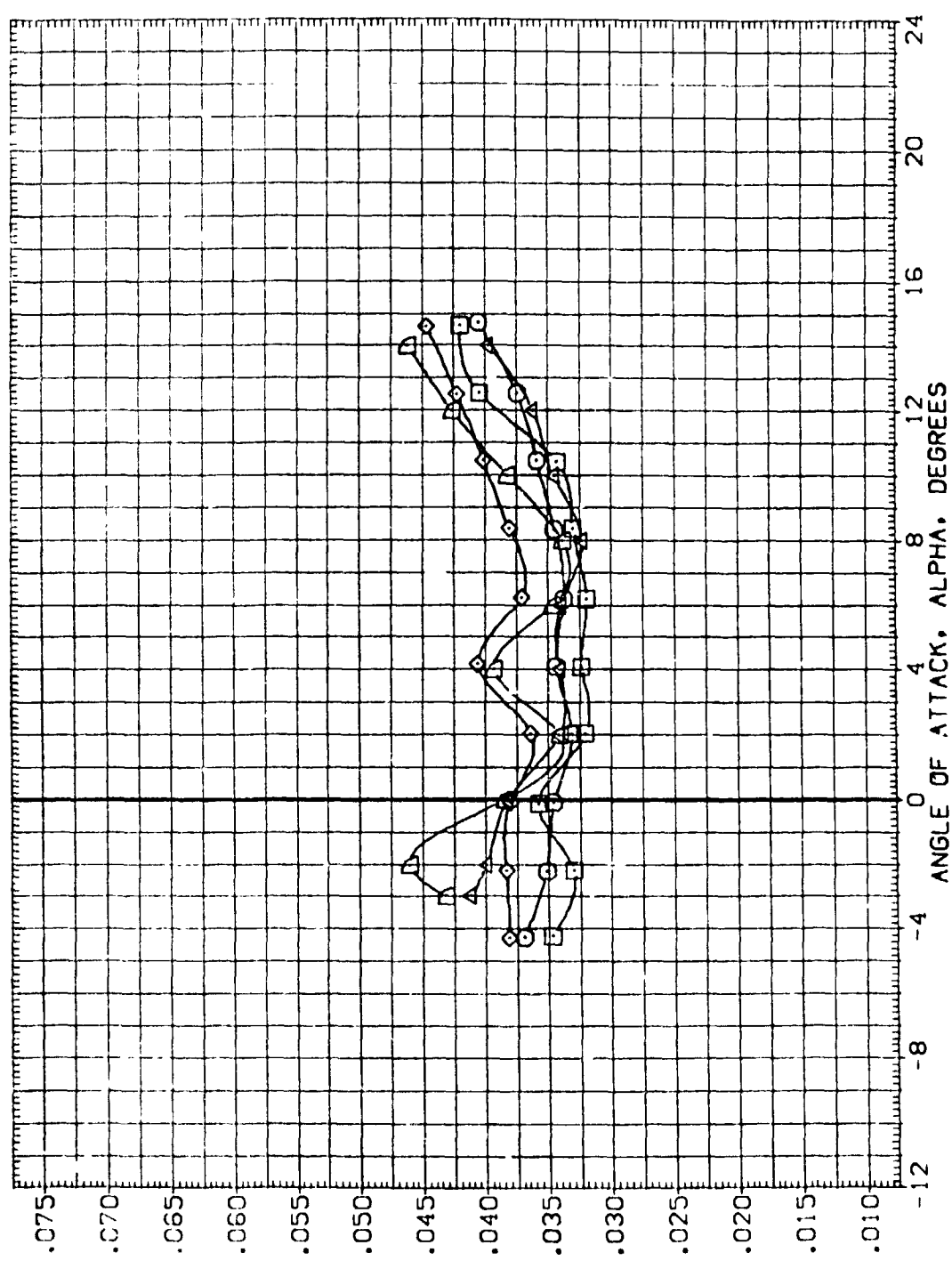


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (06R019) ARC 66-709 OAS9 0A11A-N24
 (06R022) DATA NOT AVAILABLE
 (06R023) DATA NOT AVAILABLE
 (06R019) ARC 66-709 OAS9 0A11A-N24 (ADJUSTED FOR TARES)
 (06R022) DATA NOT AVAILABLE
 (06R023) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.5255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

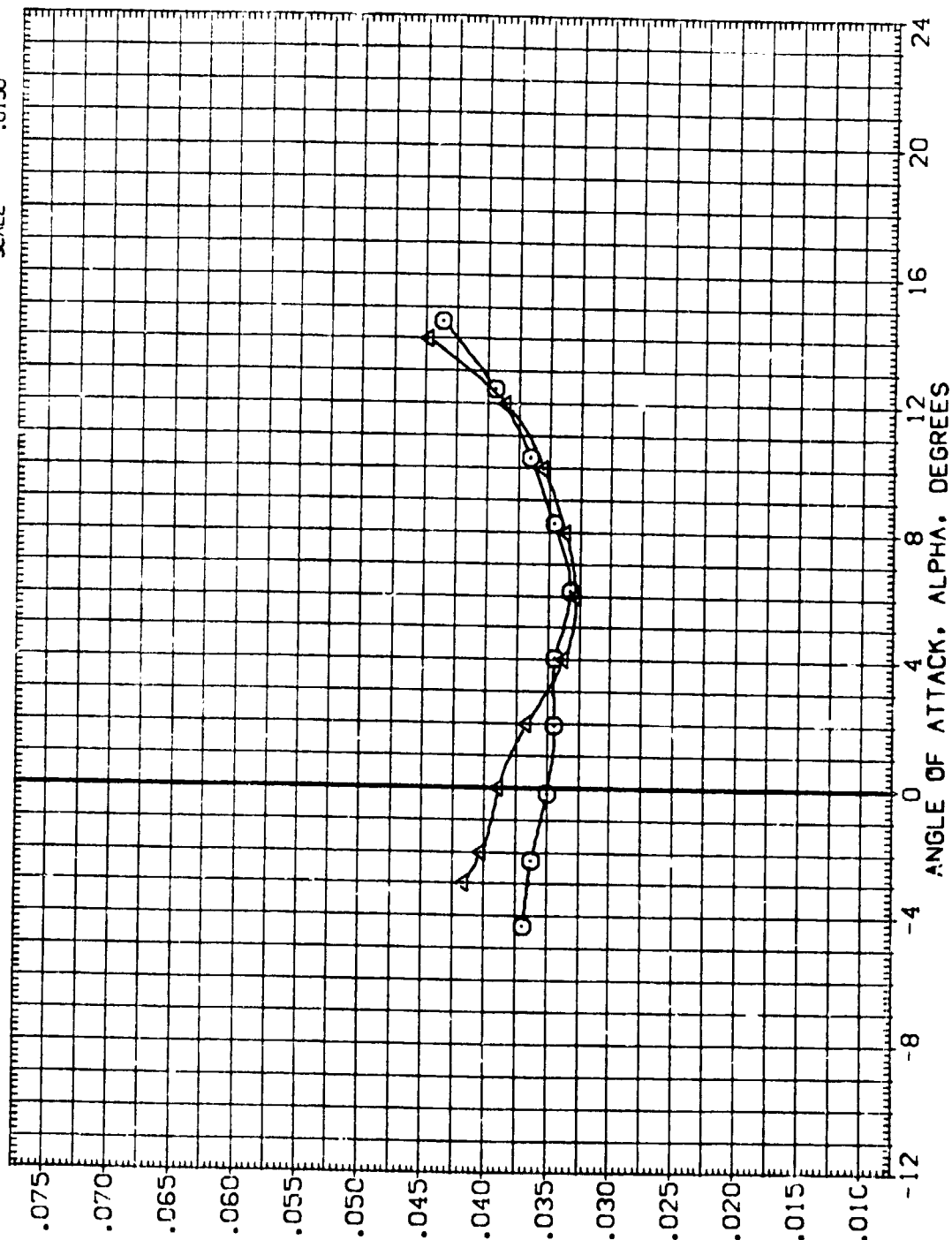


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(O)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GER019}	ARC 66-709 CAS9 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
{GER022}	ARC 66-709 CAS9 0A11A-(N24)	.000	.000	.000	LREF .5836 FT.
{GER023}	ARC 66-709 CAS9 0A11A-(N24)	.000	.000	.000	BREF 1.1710 FT.
{3ER019}	ARC 66-709 CAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
{3ER022}	ARC 66-709 CAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
{3ER023}	ARC 66-709 CAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

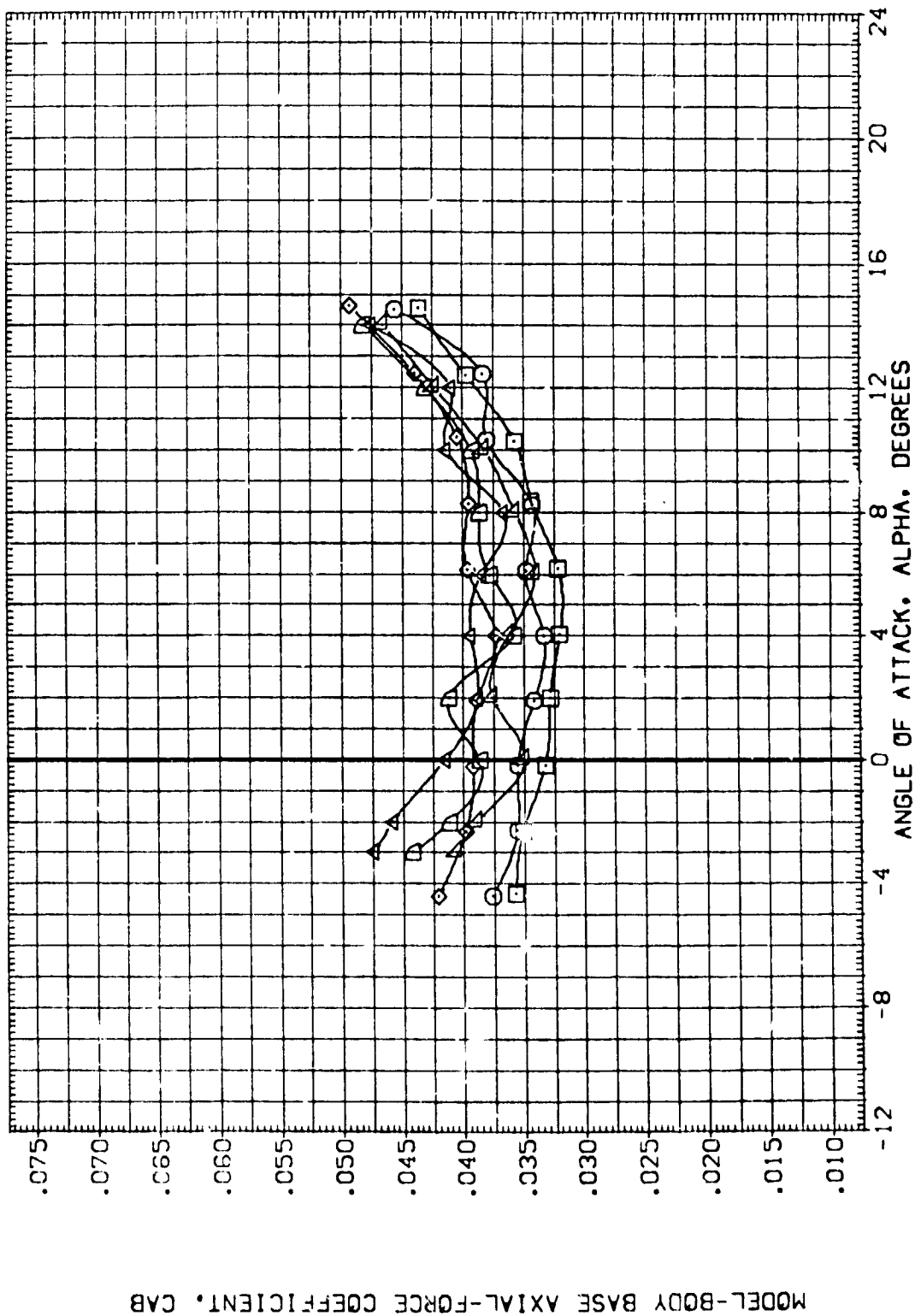


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GE0019}	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
{GE0022}	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
{GE0023}	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 FT.
{GE0019}	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XHFP 12.6255 IN.
{GE0022}	DATA NOT AVAILABLE	.000	.000	.000	ZHFP .0000 IN.
{GE0023}	DATA NOT AVAILABLE	.000	.000	16.300	SCALE -.3750 IN.

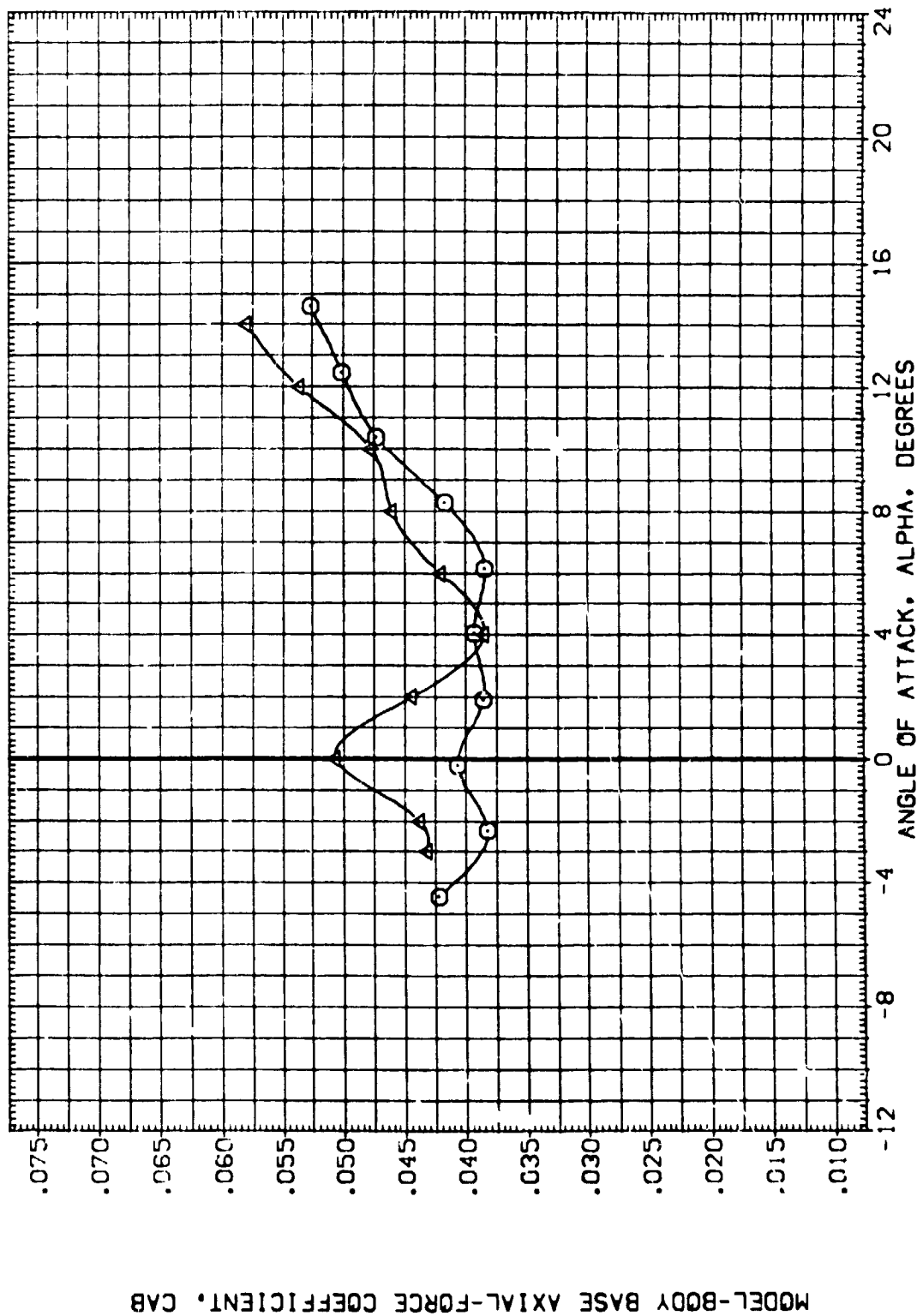


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDFLAP	REFERENCE INFORMATION
(GE R019)	ARC 66-709 OAS9 0111A-N24	.000	.000	-11.700	SREF .6053 50. FT.
(GE R022)	ARC 66-709 OAS9 0111A-N24	.000	.000	.000	LREF .5935 FT.
(GE R023)	ARC 66-709 OAS9 0111A-N24	.000	.000	-16.300	BREF 1.1710 FT.
(X R019)	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XREF 12.6755 IN.
(X R022)	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YREF .0000 IN.
(X R023)	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZREF -.3750 IN.
					SCALE .0150

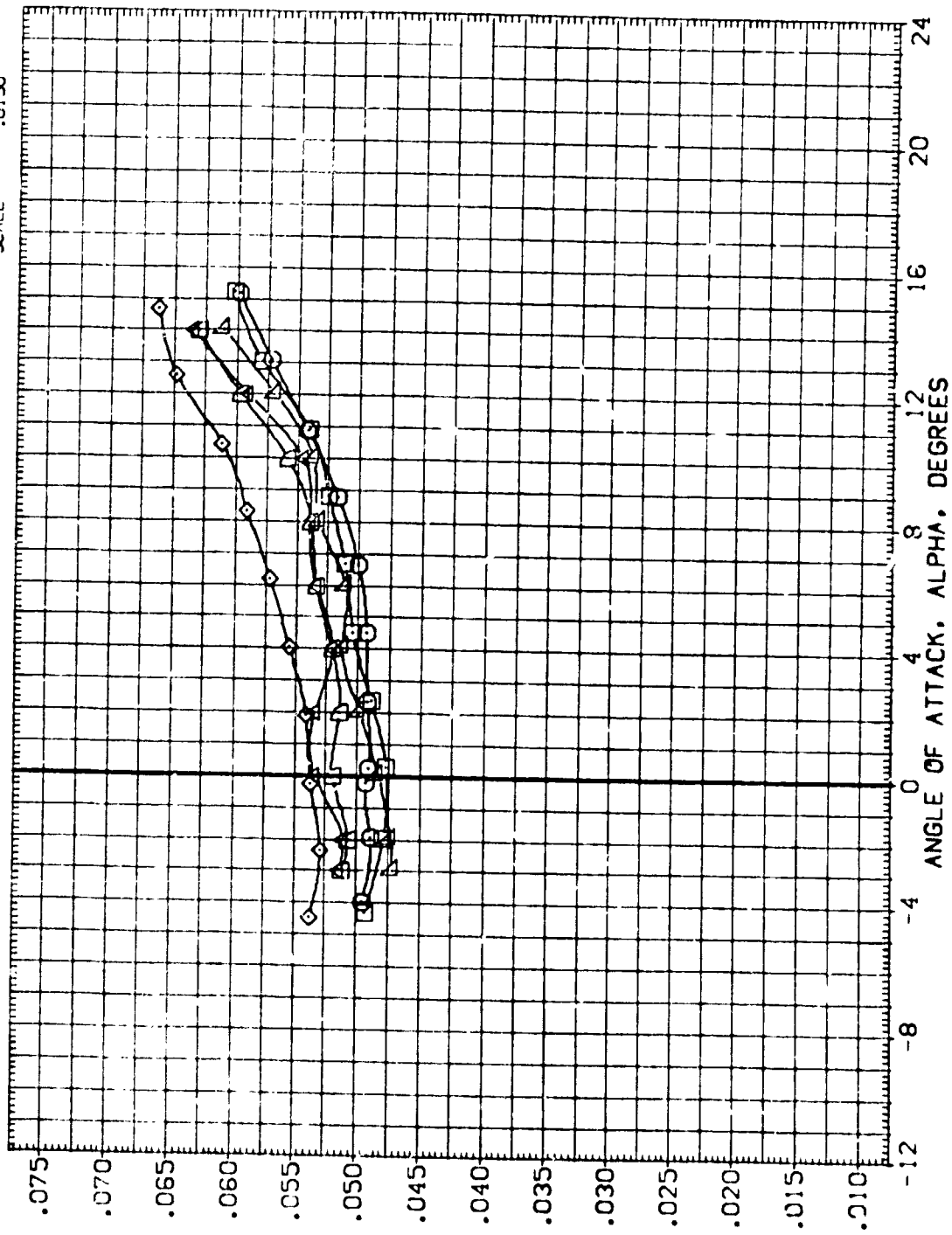


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.20

MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVATION	BOFLAP	REFERENCE INFORMATION
(ZER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(ZER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(ZER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.500	BREF 1.1710 FT.
(ZER019)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(ZER023)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.500	ZMRP -.3750 IN.
					SCALE .0150

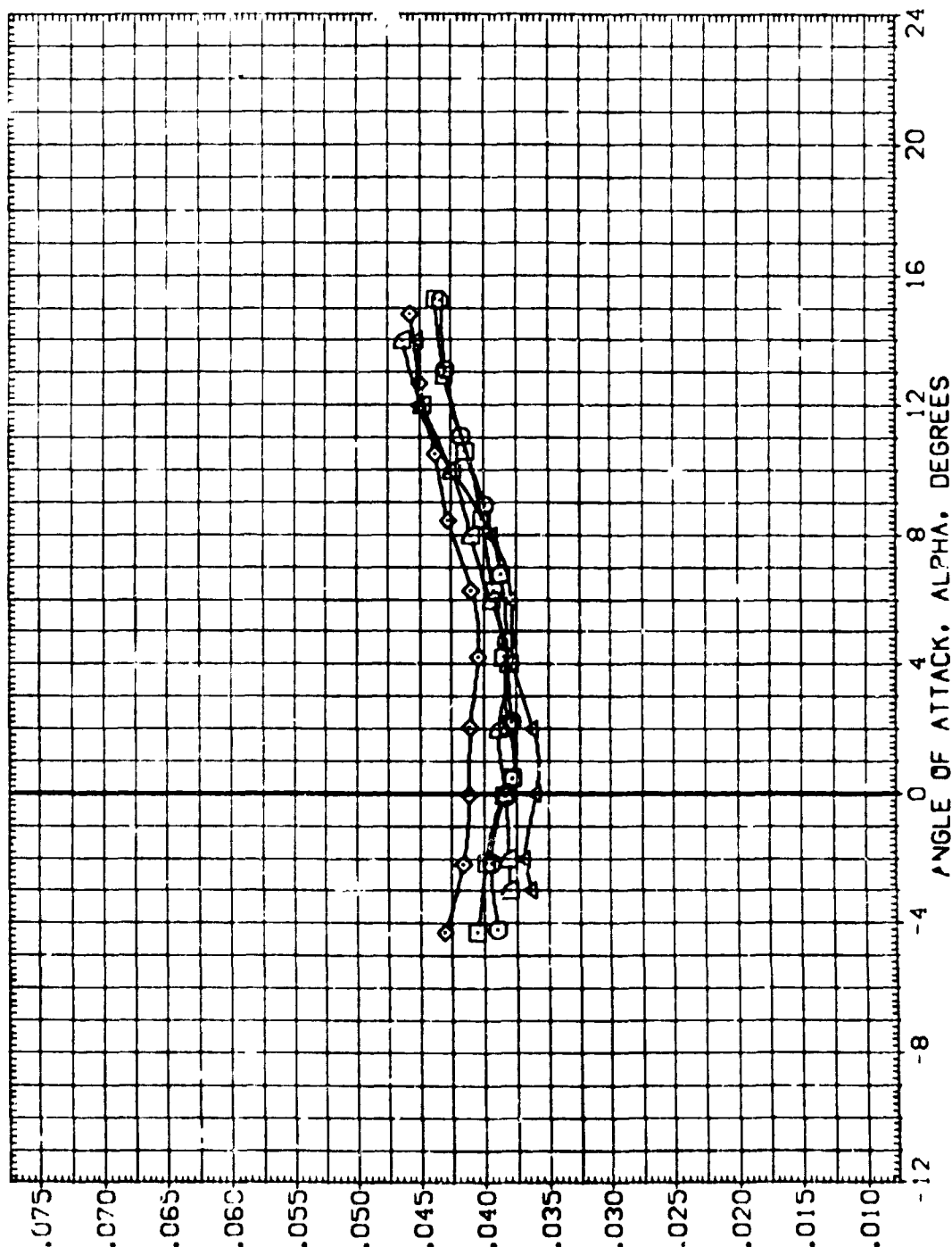


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 1.50

DATA SET SYMBOL
 (G0019)
 (G0022)
 (G0023)
 (G0019)
 (G0022)
 (G0023)

CONFIGURATION DESCRIPTION
 ARC 66-705 QAS9 0111A-(N24)
 ARC 66-709 QAS9 0111A-(N24)
 ARC 66-709 QAS9 0111A-(N24)
 ARC 66-709 QAS9 011A-N24 (ADJUSTED FOR TARES)
 ARC 66-709 QAS9 011A-N24 (ADJUSTED FOR TARES)
 ARC 66-709 QAS9 011A-N24 (ADJUSTED FOR TARE)

BETA
 .000
 .000
 .000
 .000
 .000
 .000

ELEVON
 .000
 .000
 .000
 .000
 .000
 .000

BOFLAP
 -11.700
 .000
 16.300
 -11.700
 .000
 16.300

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5975 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP .3750 IN.
 SCALE .0150

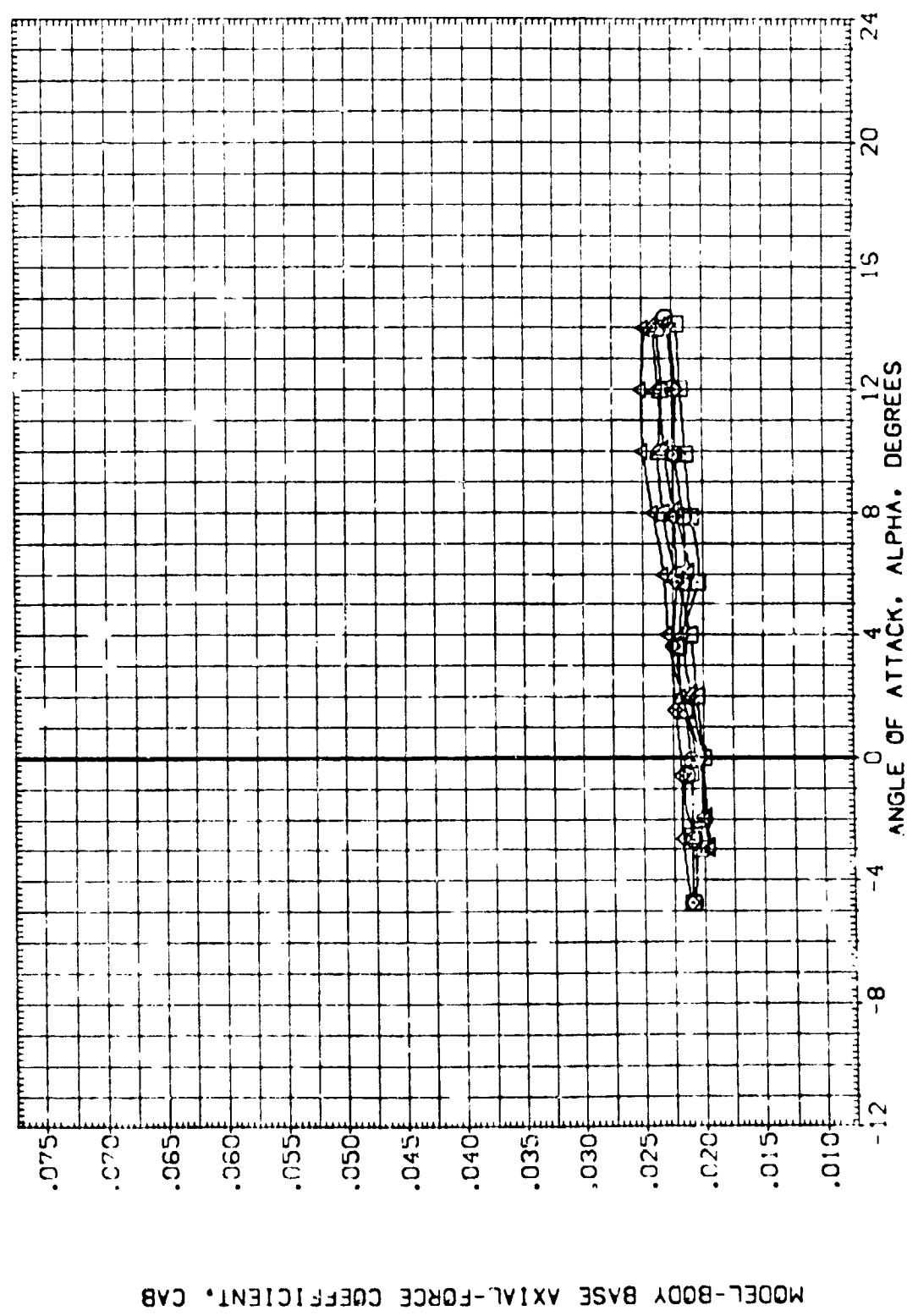


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

() MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVATION	BOFLAP	REFERENCE INFORMATION
(BERO19)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(BERO22)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(BERO23)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(ZERO19)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZERO22)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(ZERO23)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

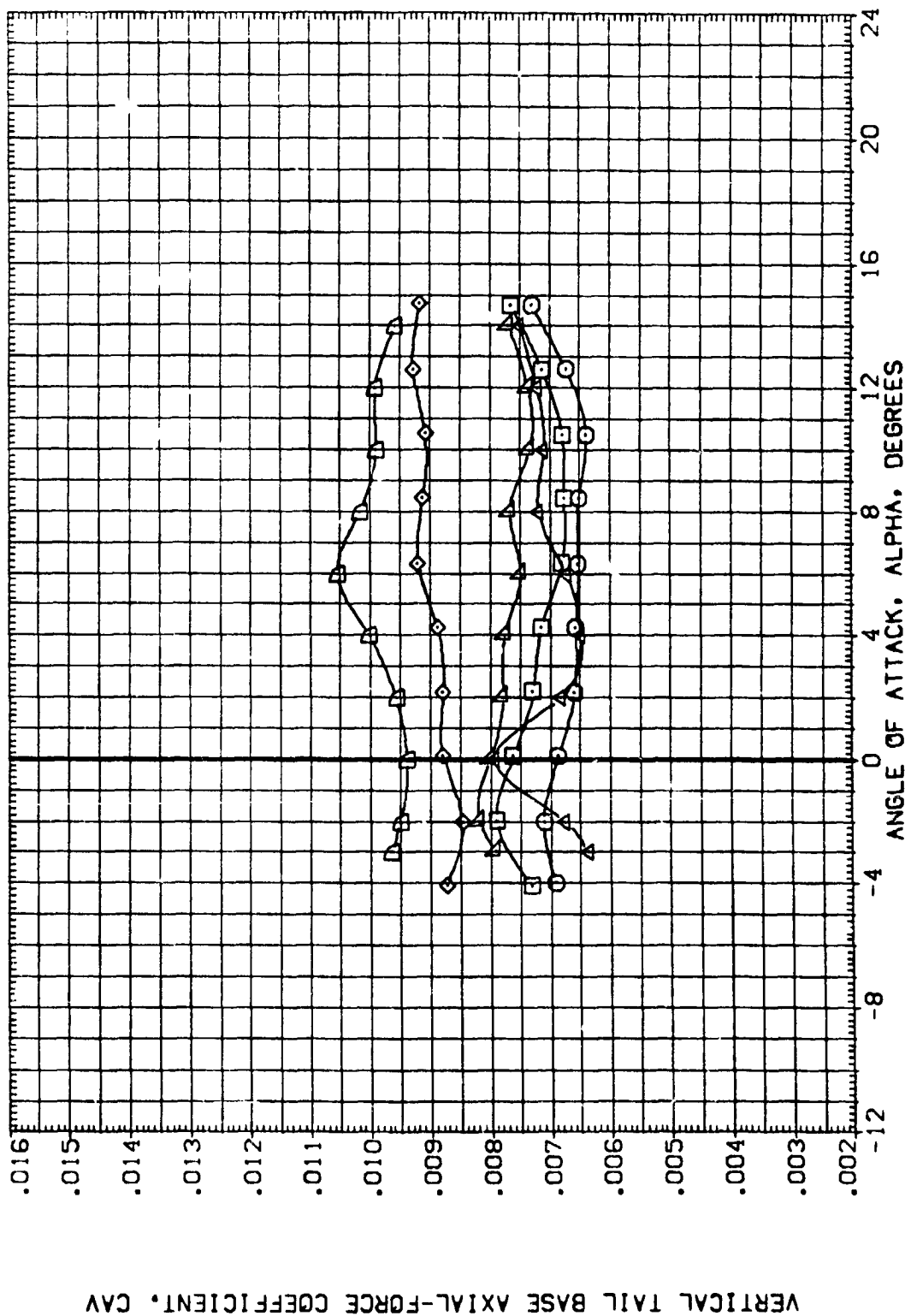


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	SOFLAP	REFERENCE INFORMATION
(BER019)	DATA NOT AVAILABLE	.000	.000	-11.700	SREF .8053 SQ.FT.
(BER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(BER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(ZER019)	DATA NOT AVAILABLE	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(ZER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

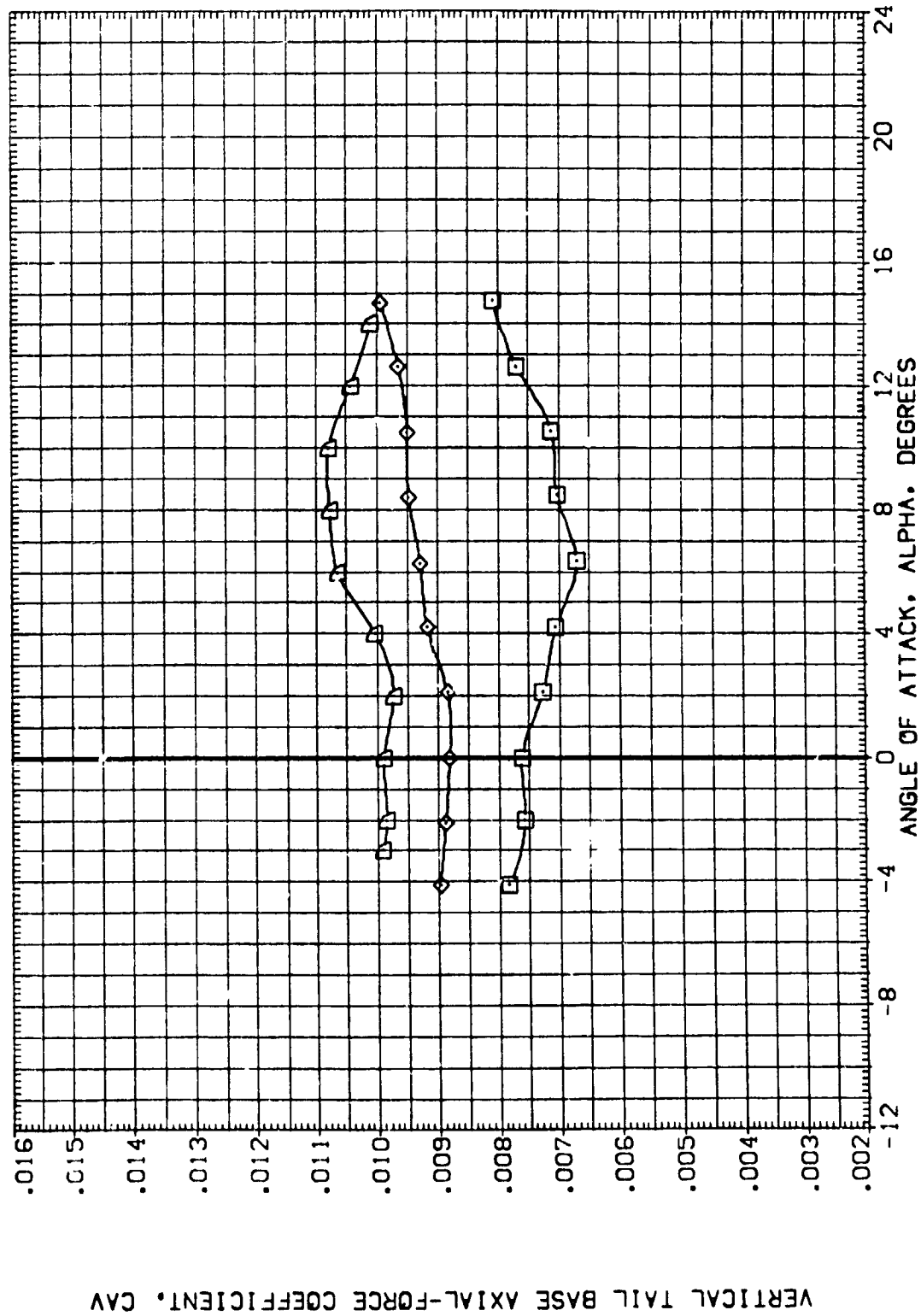


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[BER019] ARC 66-709 0A59 011A-(N24)

[BER022] ARC 66-709 0A59 011A-(N24)

[BER023] ARC 66-709 0A59 011A-(N24)

[ZER019] ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

[ZER022] DATA NOT AVAILABLE

[ZER023] ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

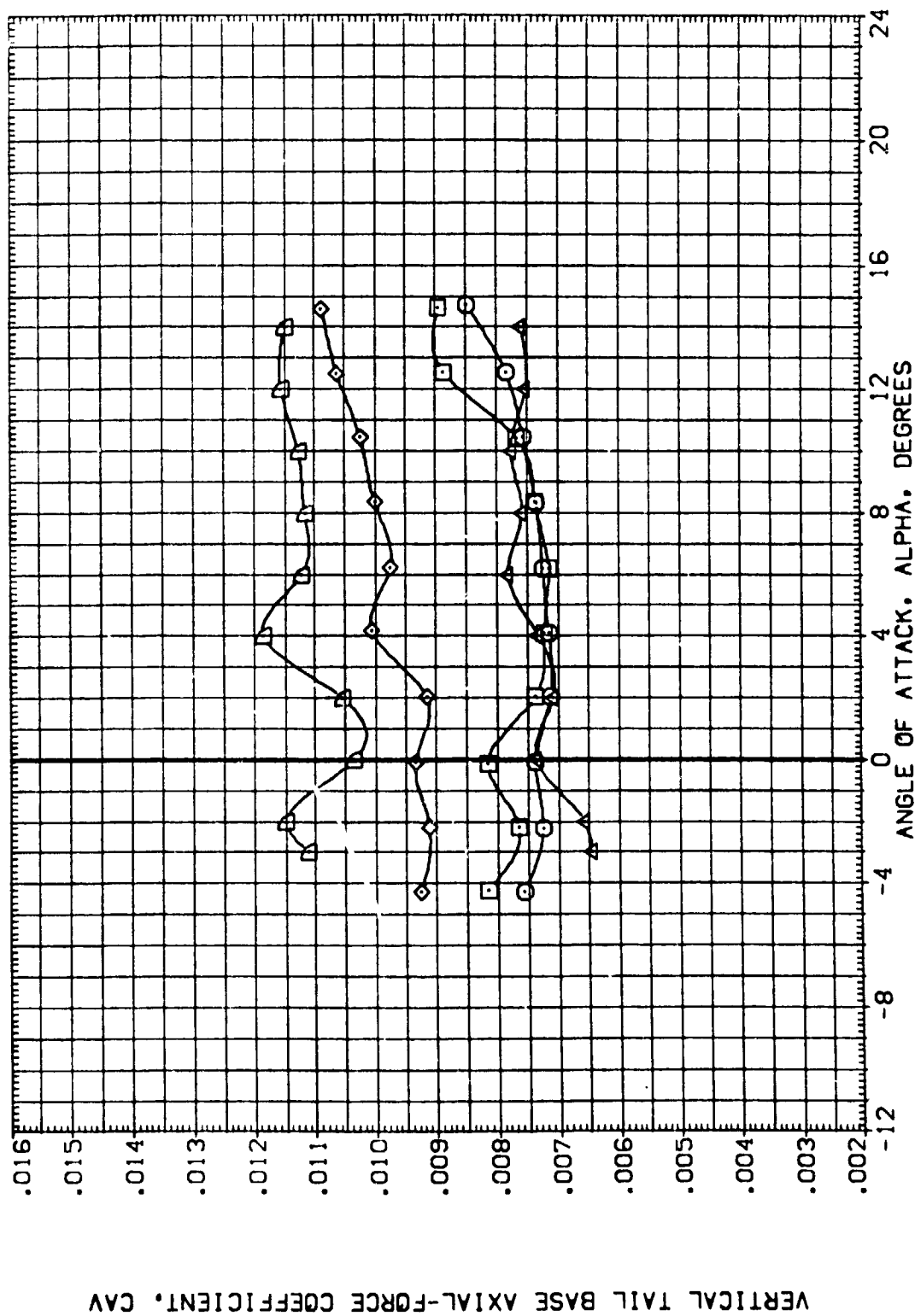


FIG. 14 80DY FLAP EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER019)	ARC 66-709 0459 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(BER023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 IN.
(ZER019)	ARC 66-709 0459 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(ZER023)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

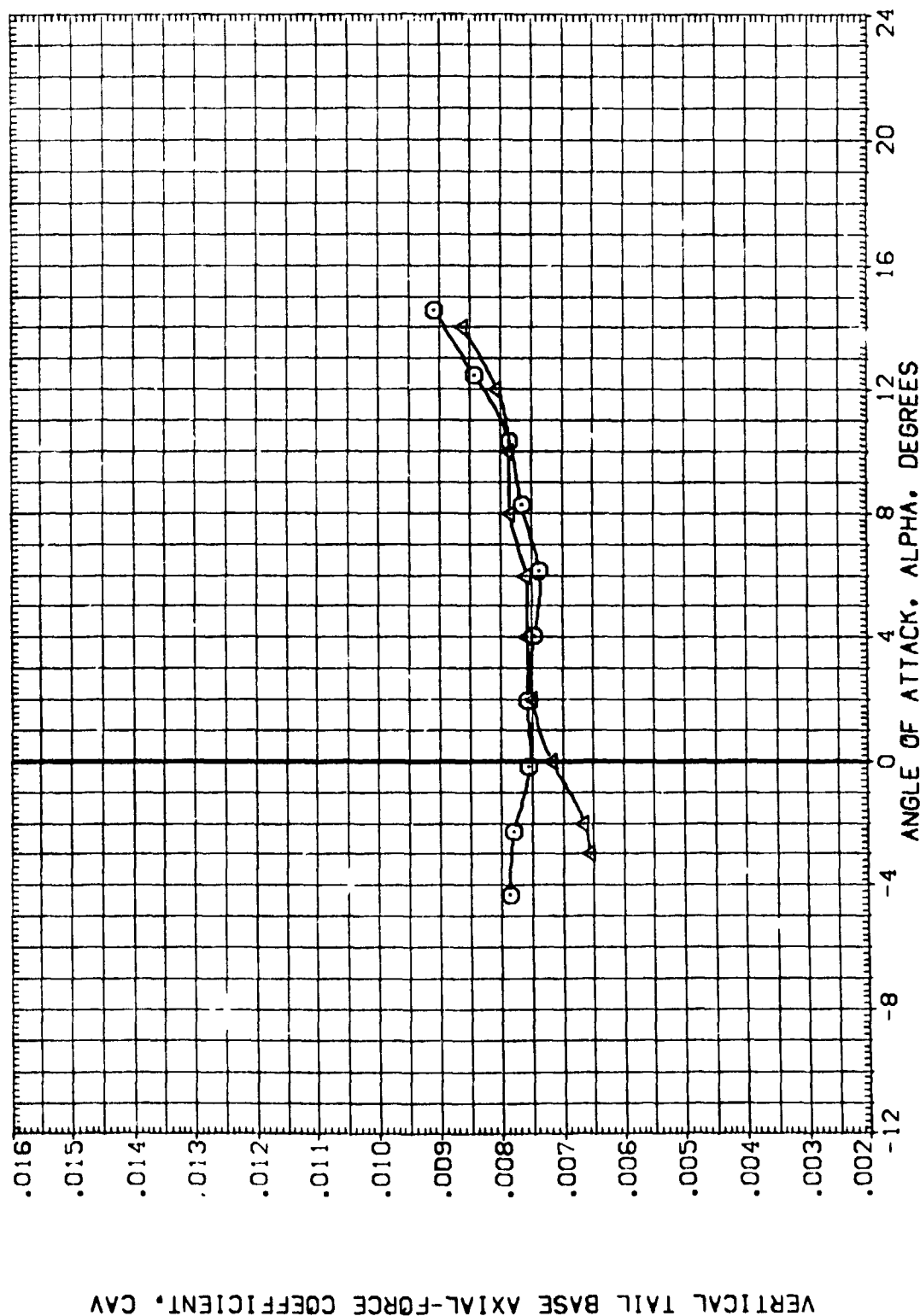


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(O)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER019)	ARC 66-709 DASS 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER022)	ARC 66-709 DASS 0111A-(N24)	.000	.000	.000	LREF .5935 FT.
(BER023)	ARC 66-709 DASS 0111A-(N24)	.000	.000	16.300	SREF 1.1710 IN.
(ZER019)	ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XTRP 12.6255 IN.
(ZER022)	ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YTRP .0000 IN.
(ZER023)	ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZTRP -.3750 IN.
					SCALE .0150

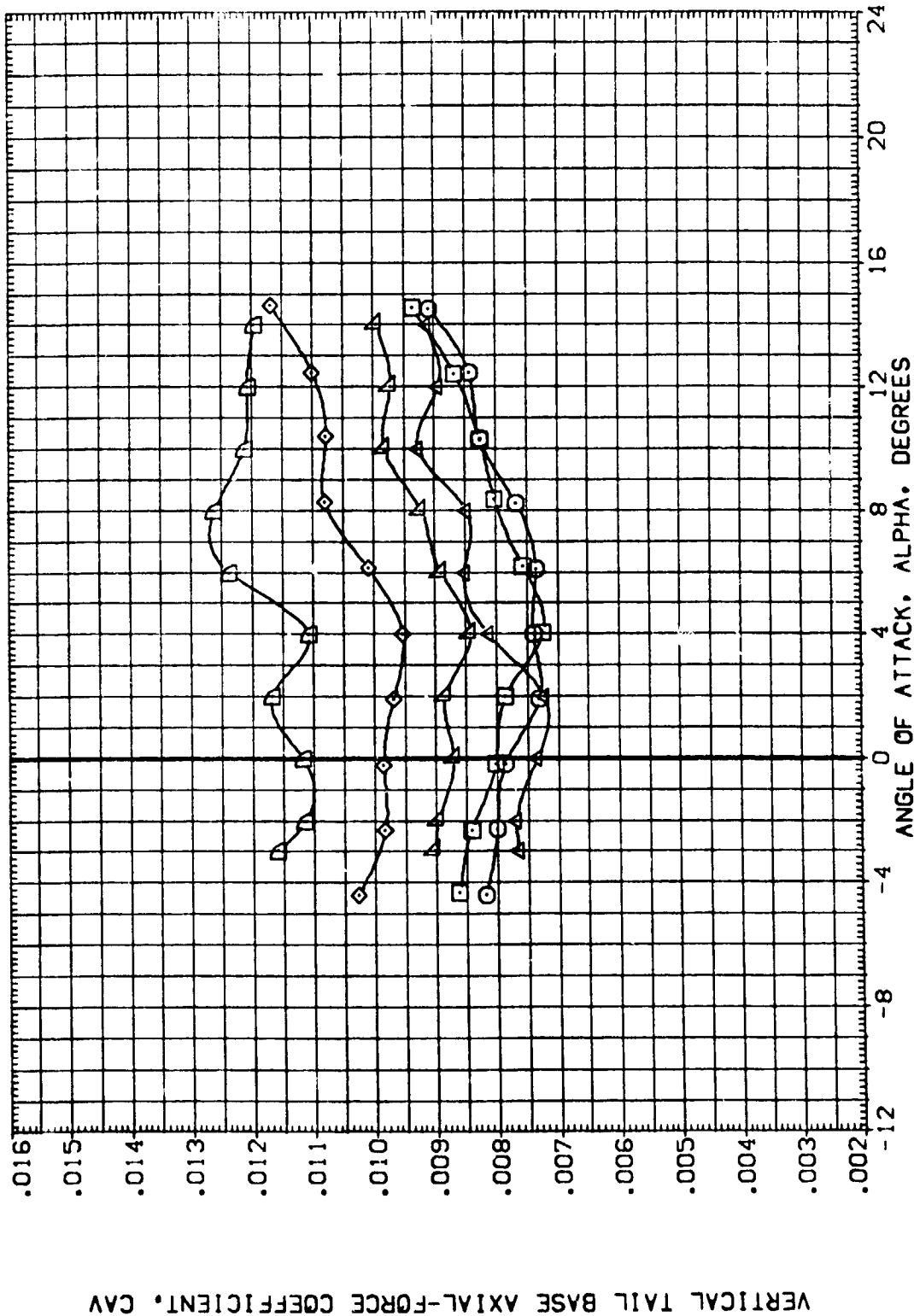


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(E)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER019)	ARC 66-709 QAS9 Q111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(BER023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 FT.
(ZER019)	ARC 66-709 QAS9 Q111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
(ZER022)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP .0000 IN.
(ZER023)	DATA NOT AVAILABLE	.000	.000	16.300	SCALE -.3750 IN.

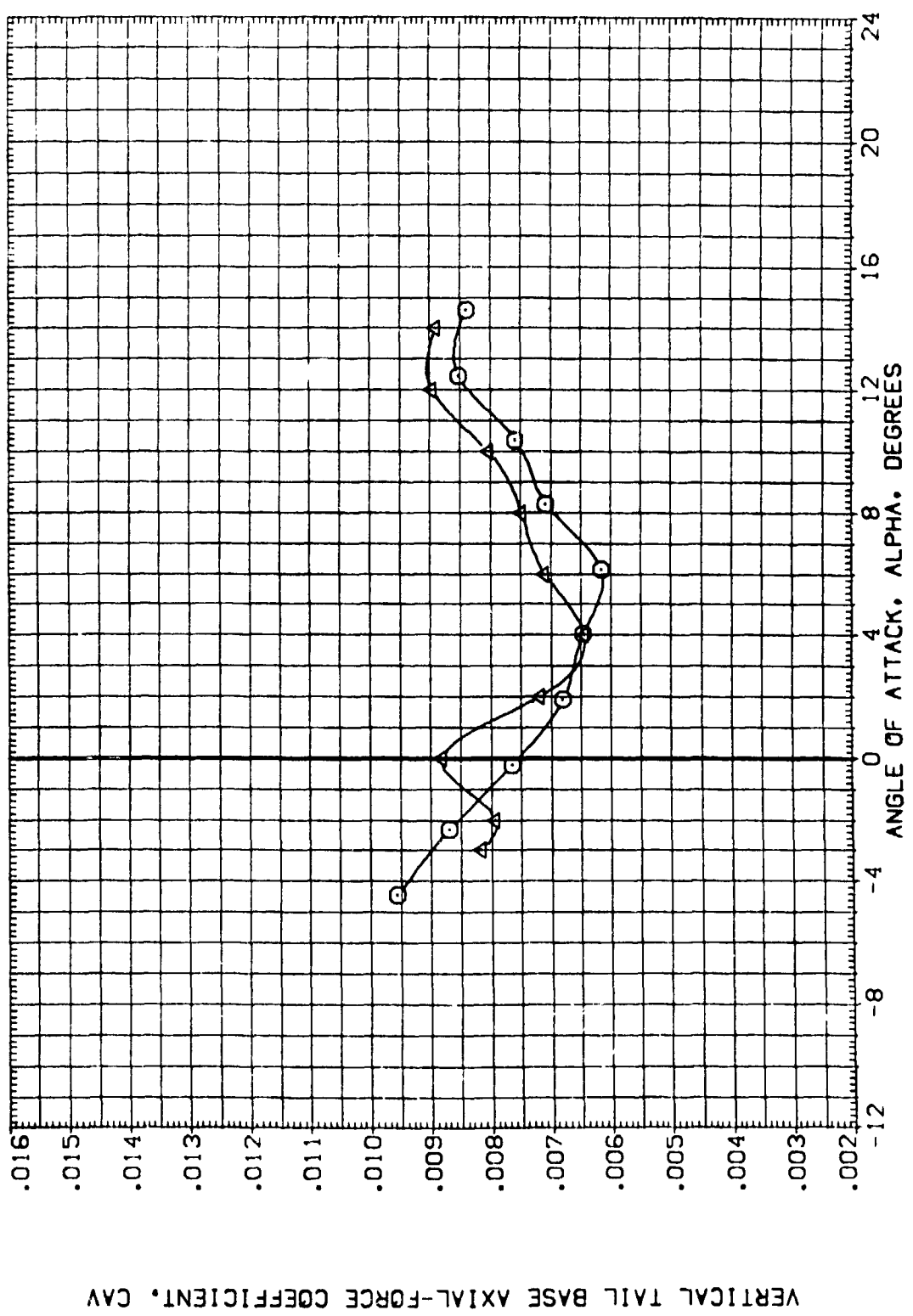


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER019)	ARC 66-709 DASS DA11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(BER022)	ARC 66-709 DASS DA11A-(N24)	.000	.000	.000	LREF .5935 FT.
(BER023)	ARC 66-709 DASS DA11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(ZER019)	ARC 66-709 DASS DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	ARC 66-709 DASS DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(ZER023)	ARC 66-709 DASS DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

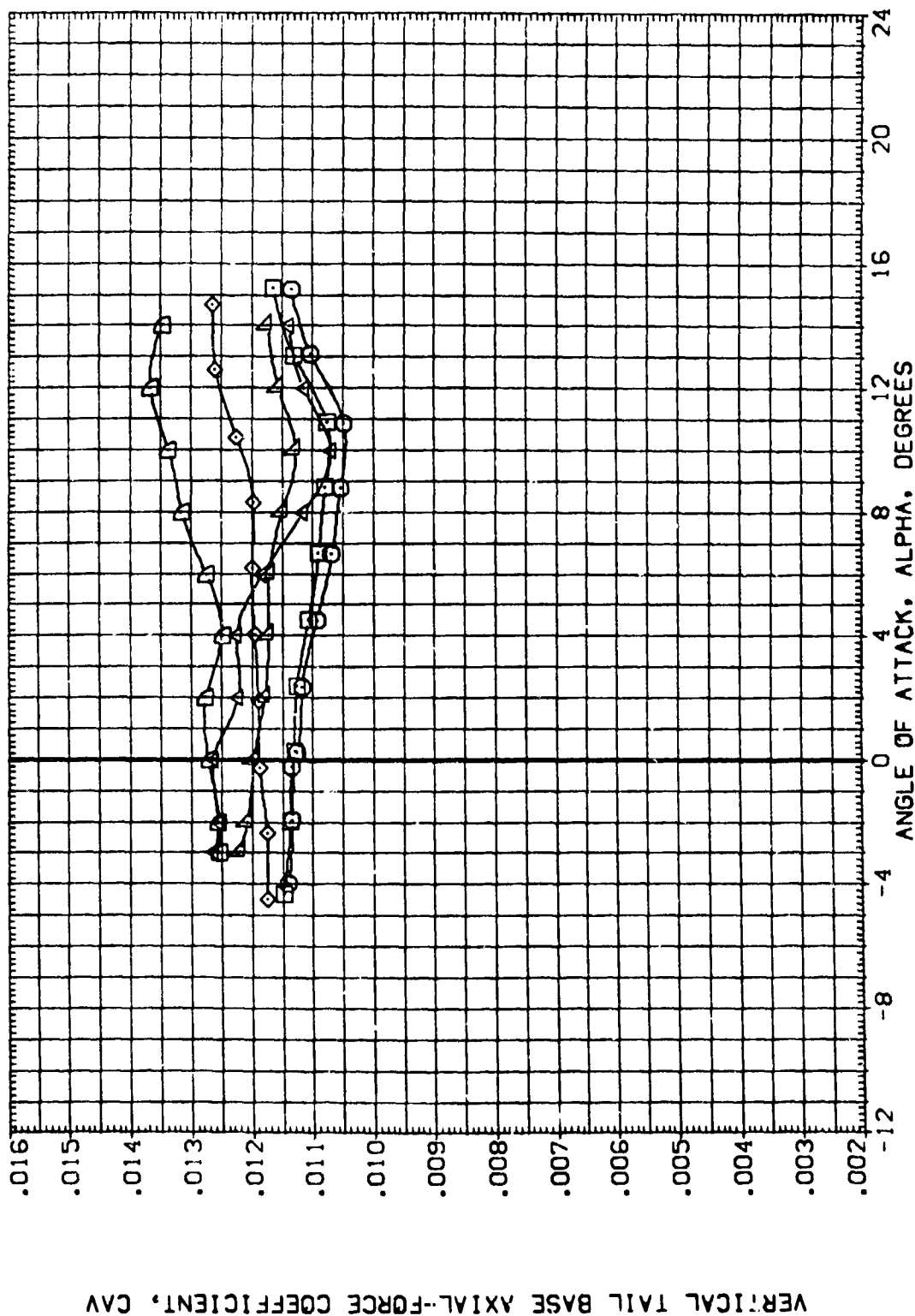


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BE R019)	ARC 66-709 DASS D111A-N24	.000	.000	-11.700	SREF .6053 SQ.FT.
(BE R022)	ARC 66-709 DASS D111A-N24	.000	.000	.000	LREF .5935 FT.
(BE R023)	ARC 66-709 DASS D111A-N24	.000	.000	.000	BREF 1.1710 FT.
(ZE R019)	ARC 66-709 DASS D111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZE R022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(ZE R023)	ARC 66-709 DASS D111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

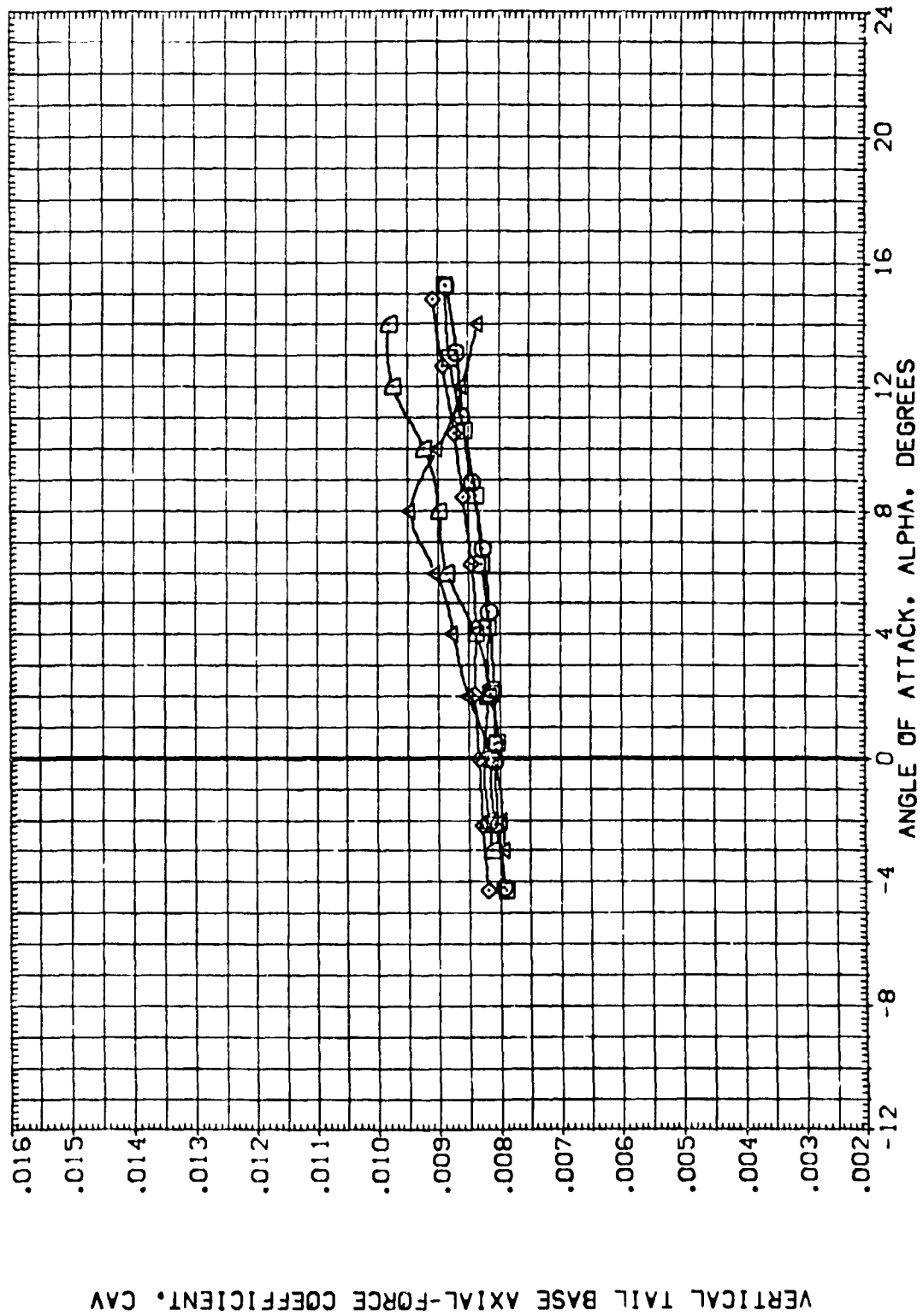


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(BER019)	ARC 66-709	0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER022)	ARC 66-709	0A59 0A11A-(N24)	.000	.000	.000	LREF .5936 FT.
(BER023)	ARC 66-709	0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(ZER019)	ARC 66-709	0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	ARC 66-709	0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(ZER023)	ARC 66-709	0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
						SCALE .0150

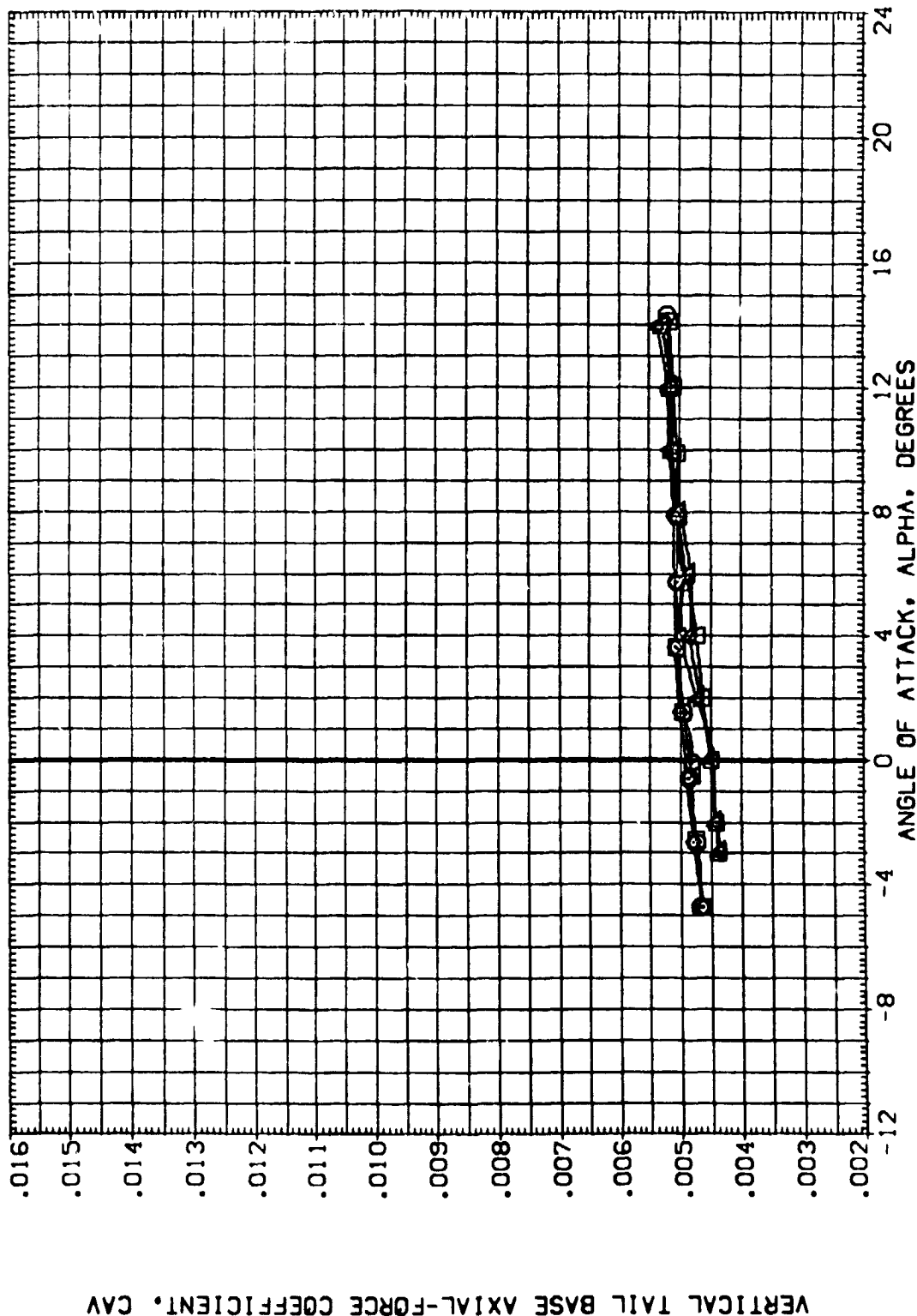


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(1)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION ON
(BER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 53.1 FT.
(BER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 F.
(BER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(ZER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(ZER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

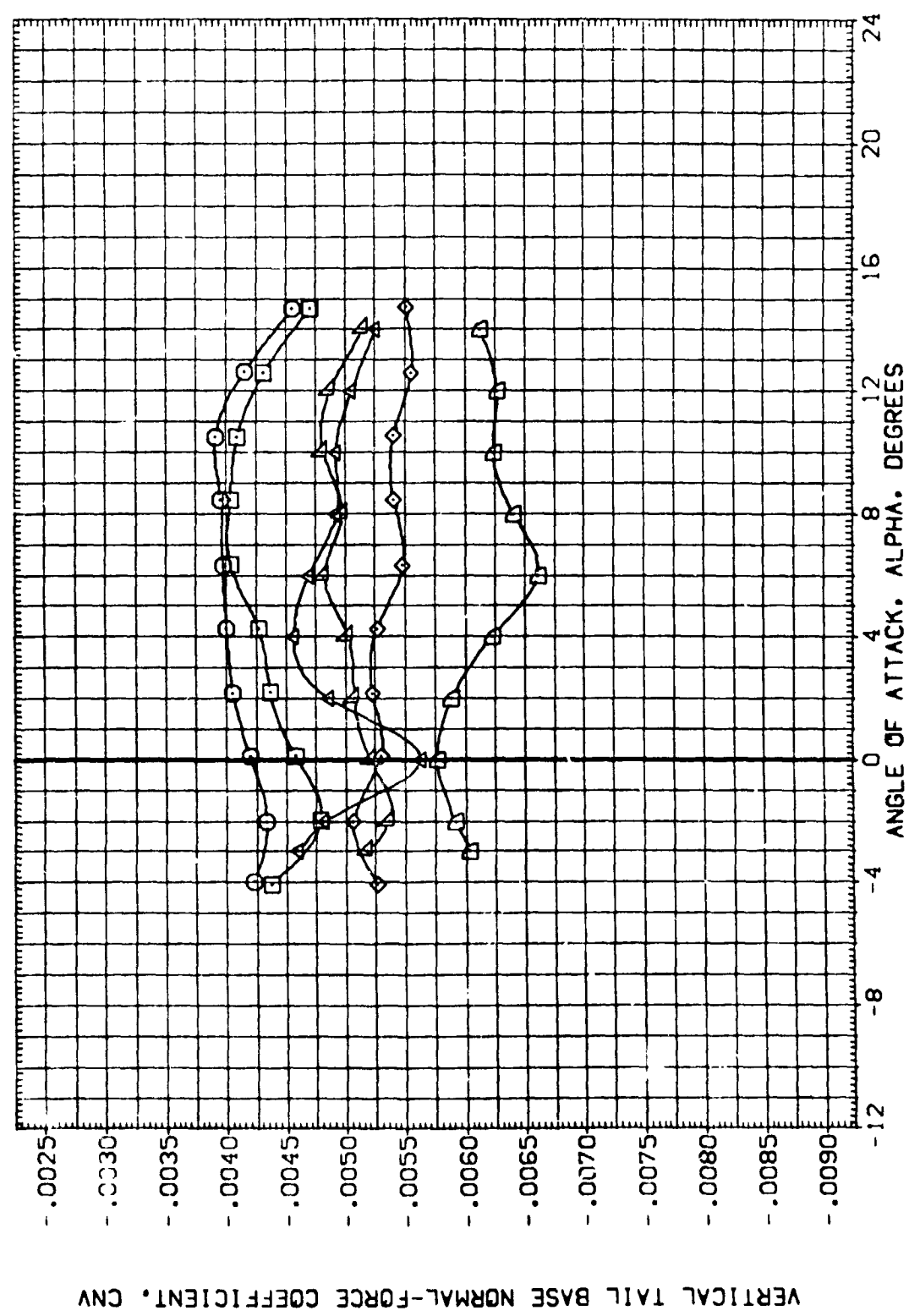


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELF/MON	BDF/LAP	REFERENCE INFORMATION
(BER019)	DATA NOT AVAILABLE	.000	.000	-11.700	SREF .6053 50.FT.
(BER022)	ARC 66-709 QAS9 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(BER023)	ARC 66-709 QAS9 0A11A-(N21)	.000	.000	16.300	BREF 1.1710 IN.
(ZER019)	DATA NOT AVAILABLE	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP .0000 IN.
(ZER023)	ARC 66-709 QAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	SCALE -.3750 IN.

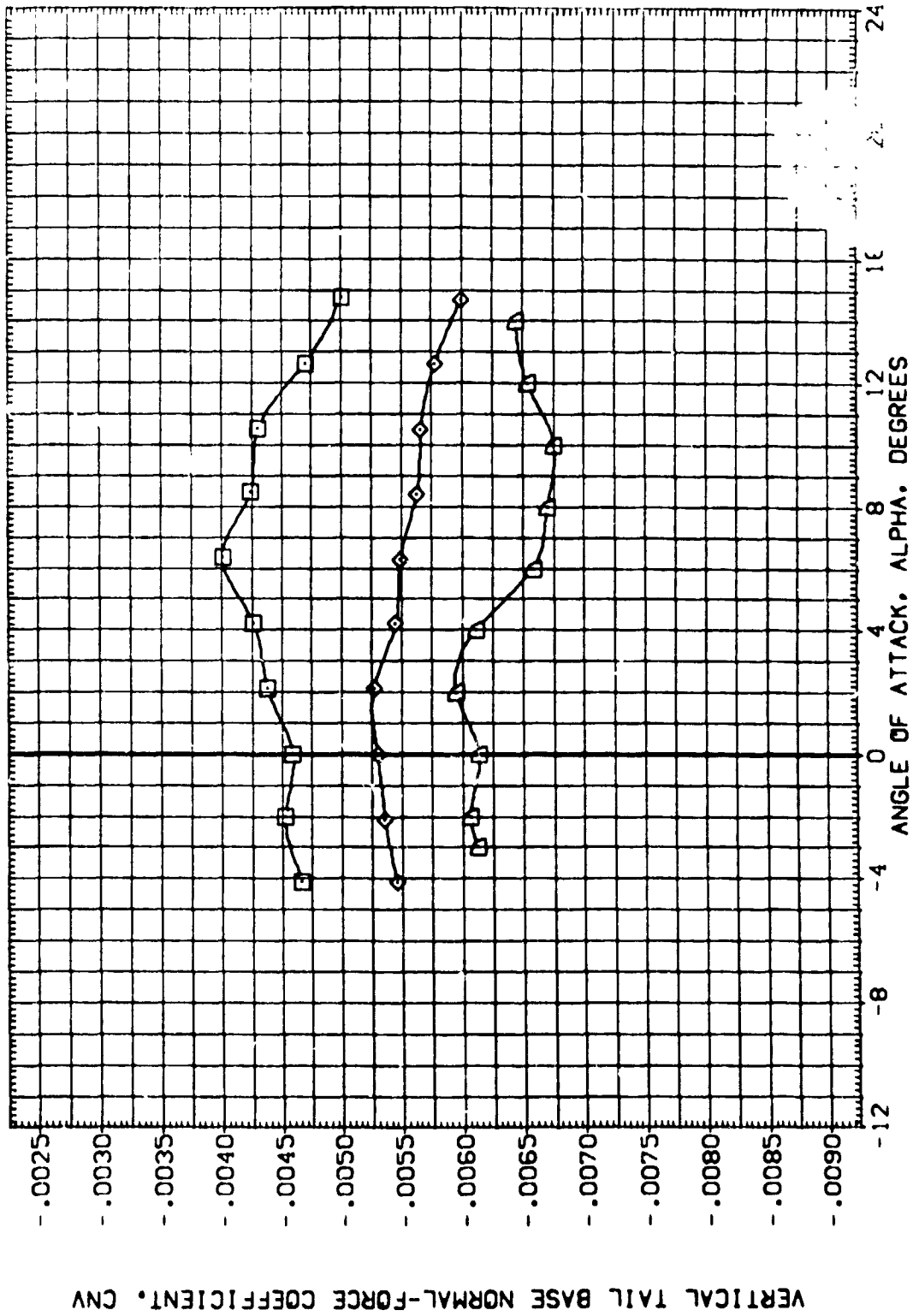


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(BER019) ARC 66-709 DASS 0111A-N24 .000 .000 -11.700 SREF .6053 SQ.FT.

(BER022) ARC 66-709 DASS 0111A-N24 .000 .000 .000 LREF .5935 FT.

(BER023) ARC 66-709 DASS 0111A-N24 .000 .000 16.300 BREF 1.1710 FT.

(ZER019) ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES) .000 .000 -11.700 XMRP 12.6255 IN.

(ZER022) DATA NOT AVAILABLE .000 .000 .000 YMRP .0000 IN.

(ZER023) ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES) .000 .000 16.300 ZMRP -.3750 IN.

SCALE .0150

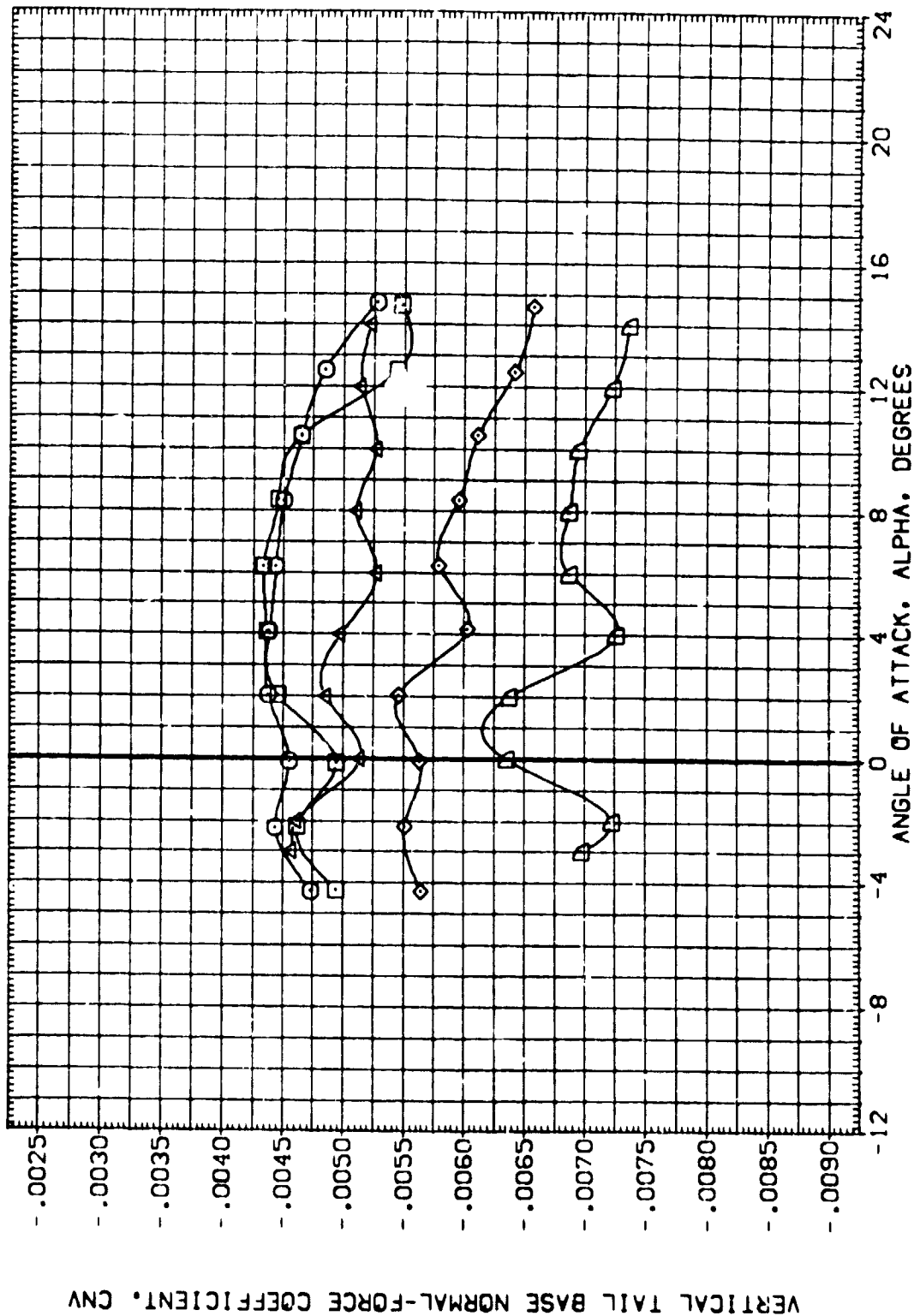


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(C)MACH = .80

SREF	.6053	57. FT.
LREF	.5935	FT.
BREF	1.1710	FT. IN.
XMRD	12.6255	IN.
YMRD	.0000	IN.
ZMRD	-.3750	IN.
SCALE	.0150	

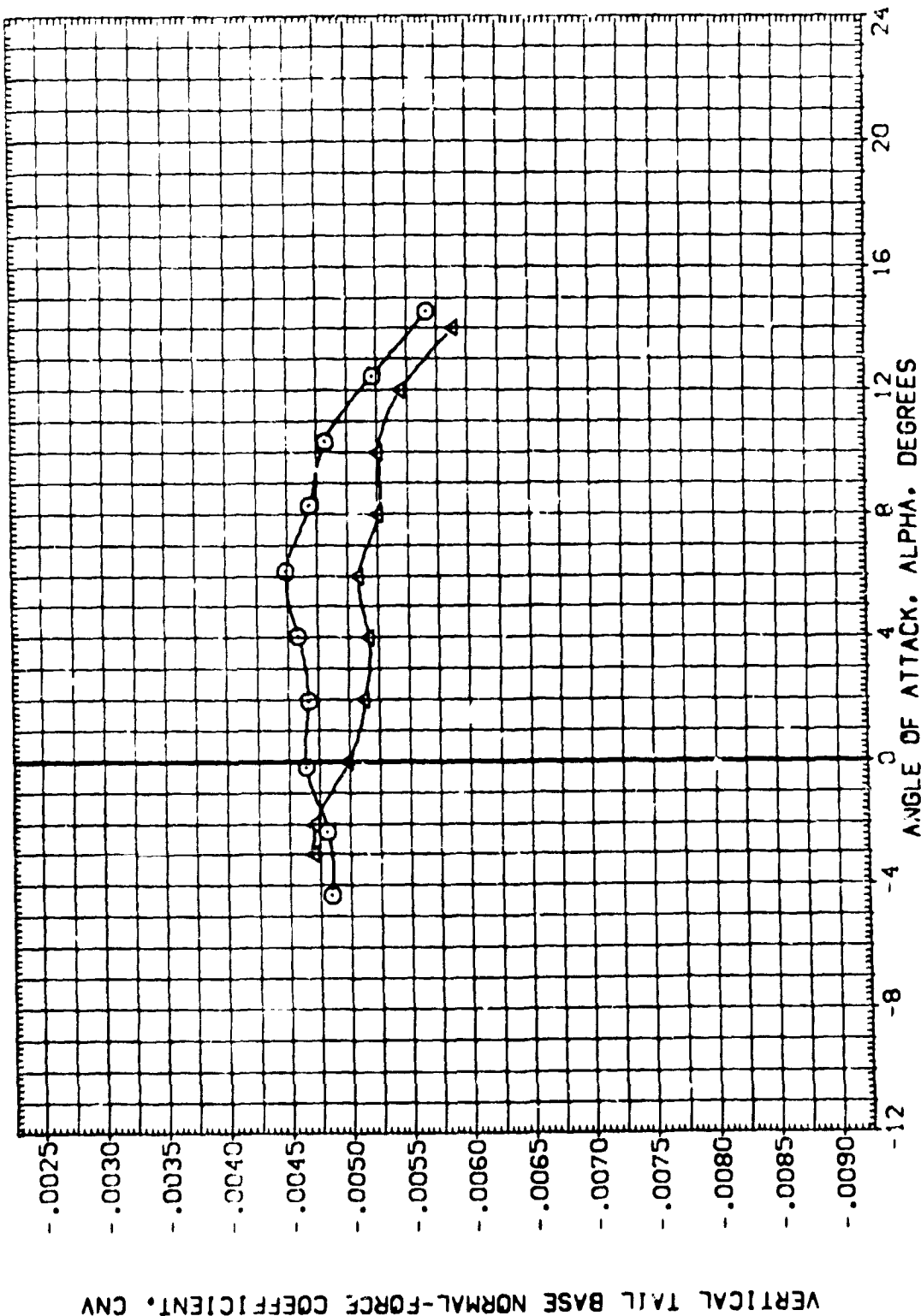


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

$$C(D)MACH = .85$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(BER019) ARC 66-709 OAS9 O11A-(N24) .000 .000 -11.700 SREF .6053 50.FT.

(BER022) ARC 66-709 OAS9 O11A-(N24) .000 .000 .000 LREF .5935 FT.

(BER023) ARC 66-709 OAS9 O11A-(N24) .000 .000 16.300 XREF 1.1710 IN.

(ZER019) ARC 66-709 OAS9 O11A-N24 (ADJUSTED FOR TARES) .000 .000 -11.700 YREF .0000 IN.

(ZER022) ARC 66-709 OAS9 O11A-N24 (ADJUSTED FOR TARES) .000 .000 16.300 ZREF -.3750 IN.

(ZER023) ARC 66-709 OAS9 O11A-N24 (ADJUSTED FOR TARES) .000 .000 16.300 SCALE .0150

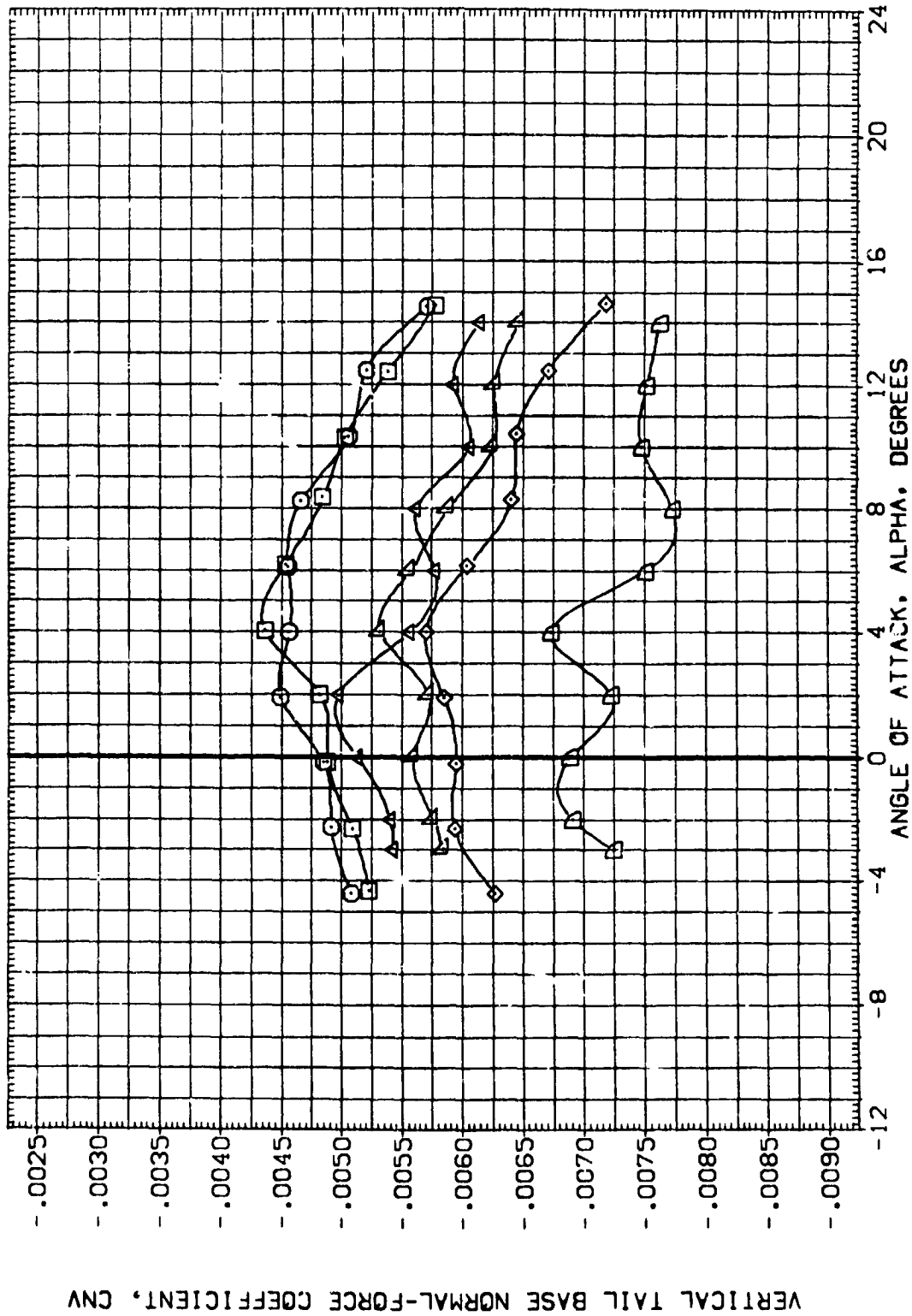


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(E)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(BER019)	ARC 66-709 OAS9 0111A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(BER023)	DATA NOT AVAILABLE	.000	.000	16.300	SRFF 1.1710 FT.
(ZER019)	ARC 66-709 OAS9 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
(ZER022)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP .0000 IN.
(ZER023)	DATA NOT AVAILABLE	.000	.000	16.300	SCALE -.3750 IN.

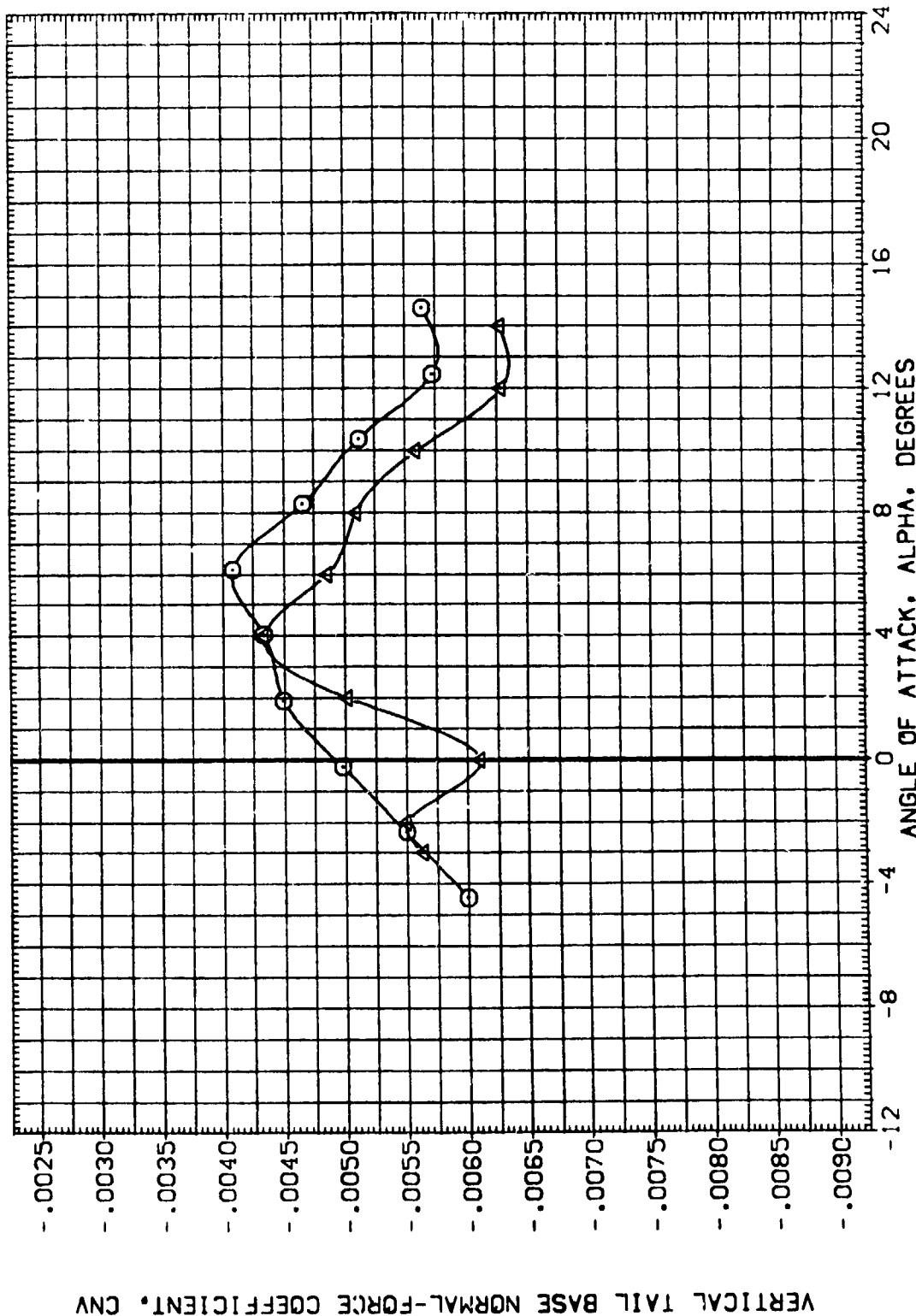


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(BER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(BER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(BER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(ZER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(ZER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

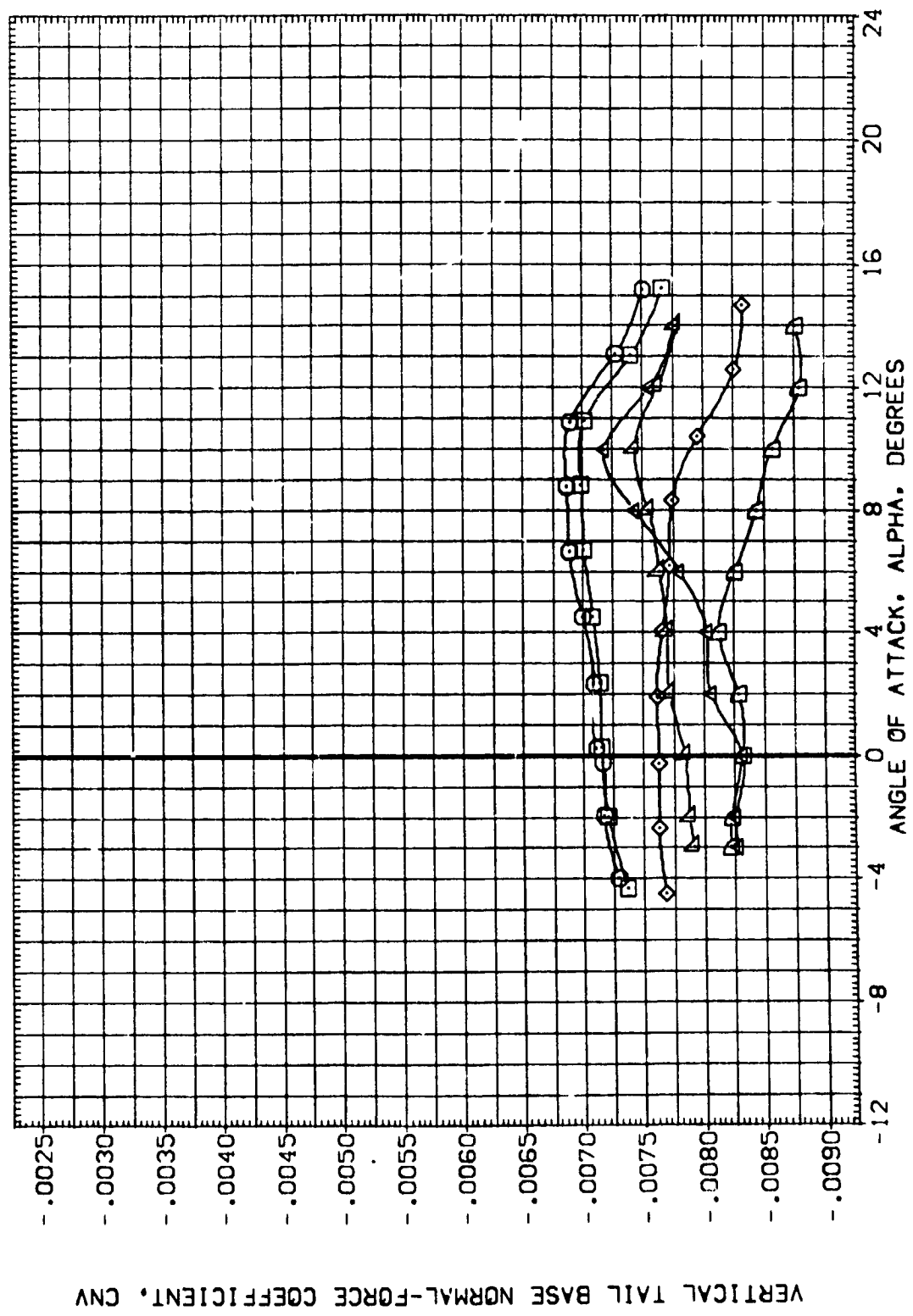


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BODY FLAP REFERENCE INFORMATION

(BER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	LREF .9535 FT.
(BER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	BREF 1.1710 FT.
(ZER019)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(ZER023)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	ZMRP -.3750 IN.
				16.300	SCALE .0150

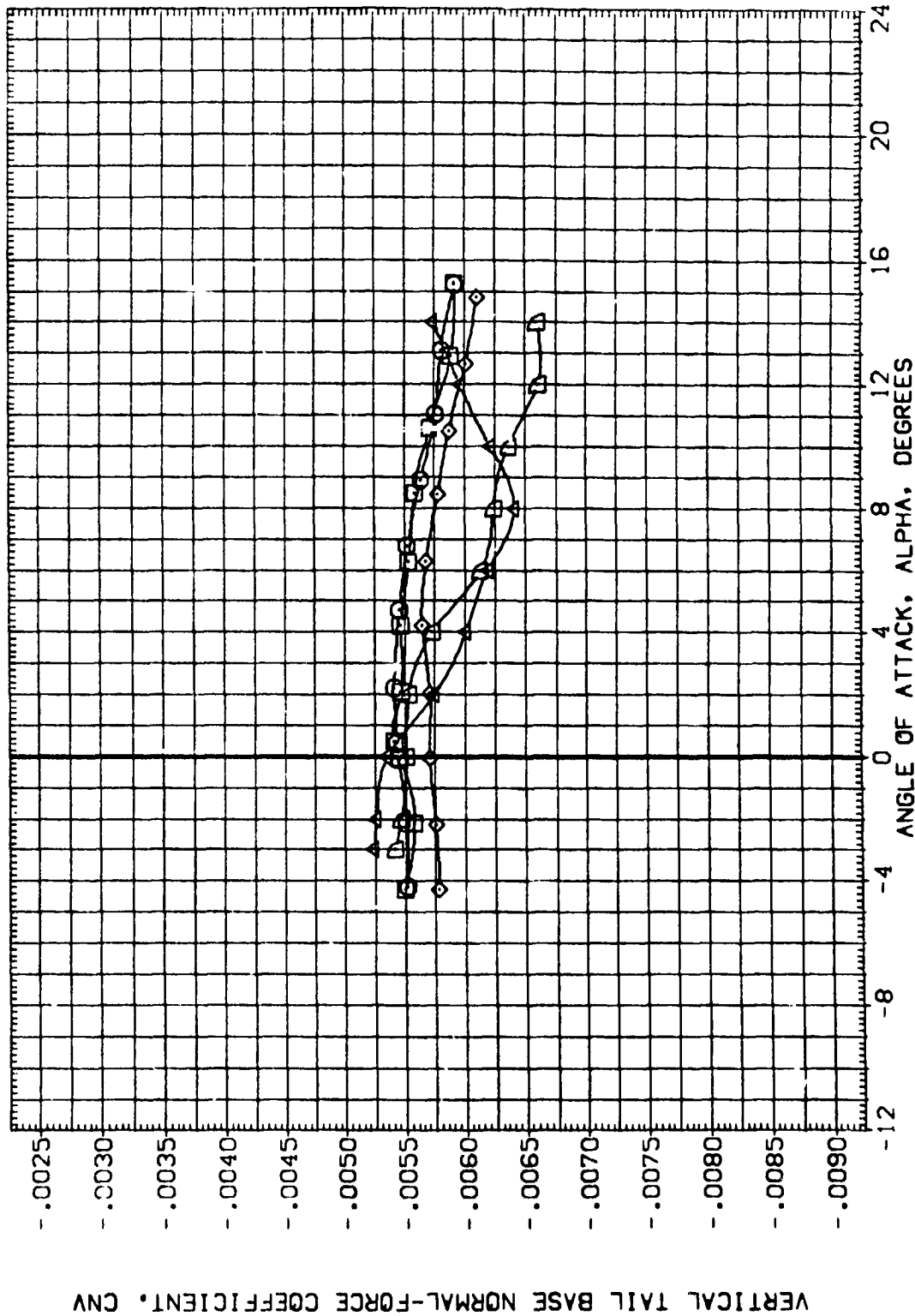


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(H)MACH = 1.50

REFERENCE INFORMATION

SREF	.6053	FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	.000	.000
.000	.000	16.300
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300

CONFIGURATION DESCRIPTION

ARC 66-709	0A59	0A11A-(N24)
ARC 66-709	0A59	0A11A-(N24)
ARC 66-709	0A59	0A11A-(N24)
ARC 66-709	0A59	0A11A-N24 (ADJUSTED FOR TARES)
ARC 66-709	0A59	0A11A-N24 (ADJUSTED FOR TARES)
ARC 66-709	0A59	0A11A-N24 (ADJUSTED FOR TARES)

DATA SET SYMBOL

(BER019)	□
(BER022)	◇
(BER023)	△
(ZER019)	○
(ZER022)	×
(ZER023)	+

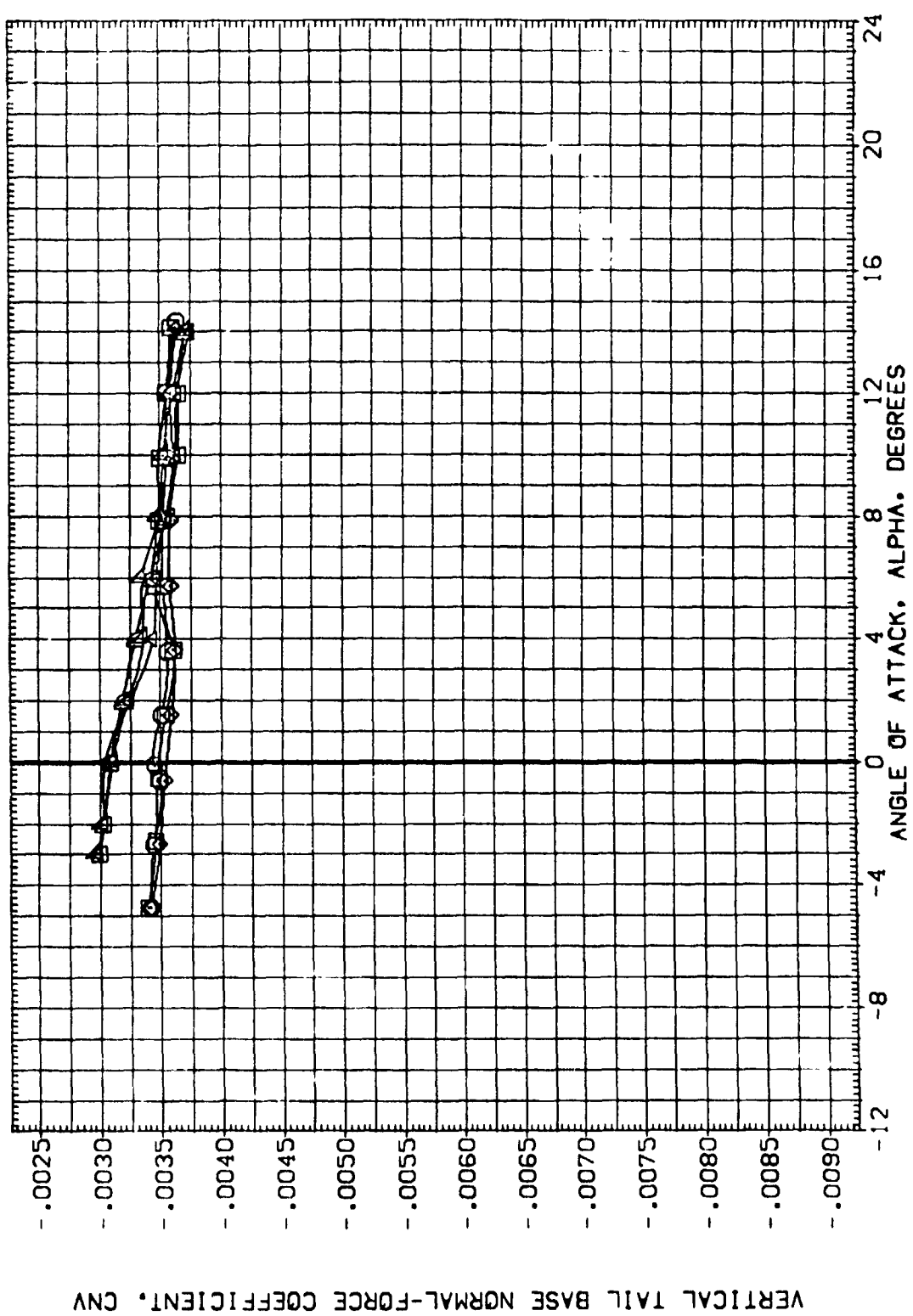


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(1)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION
(BER019)	ARC 66-709 0A59	0A11A-(N24)
(BER022)	ARC 66-709 0A59	0A11A-(N24)
(BER023)	ARC 66-709 0A59	0A11A-(N24)
(ZER019)	ARC 66-709 0A59	0A11A-N24 (ADJUSTED FOR TARES)
(ZER022)	ARC 66-709 0A59	0A11A-N24 (ADJUSTED FOR TARES)
(ZER023)	ARC 66-709 0A59	0A11A-N24 (ADJUSTED FOR TARES)

REFERENCE INFORMATION

REFERENCE	INFORMATION
SREF	.6053 50.FT.
LREF	.5935 FT.
BREF	1.1710 FT.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150

BETA ELEVON BDF LAP

BETA	ELEVON	BDF LAP
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300

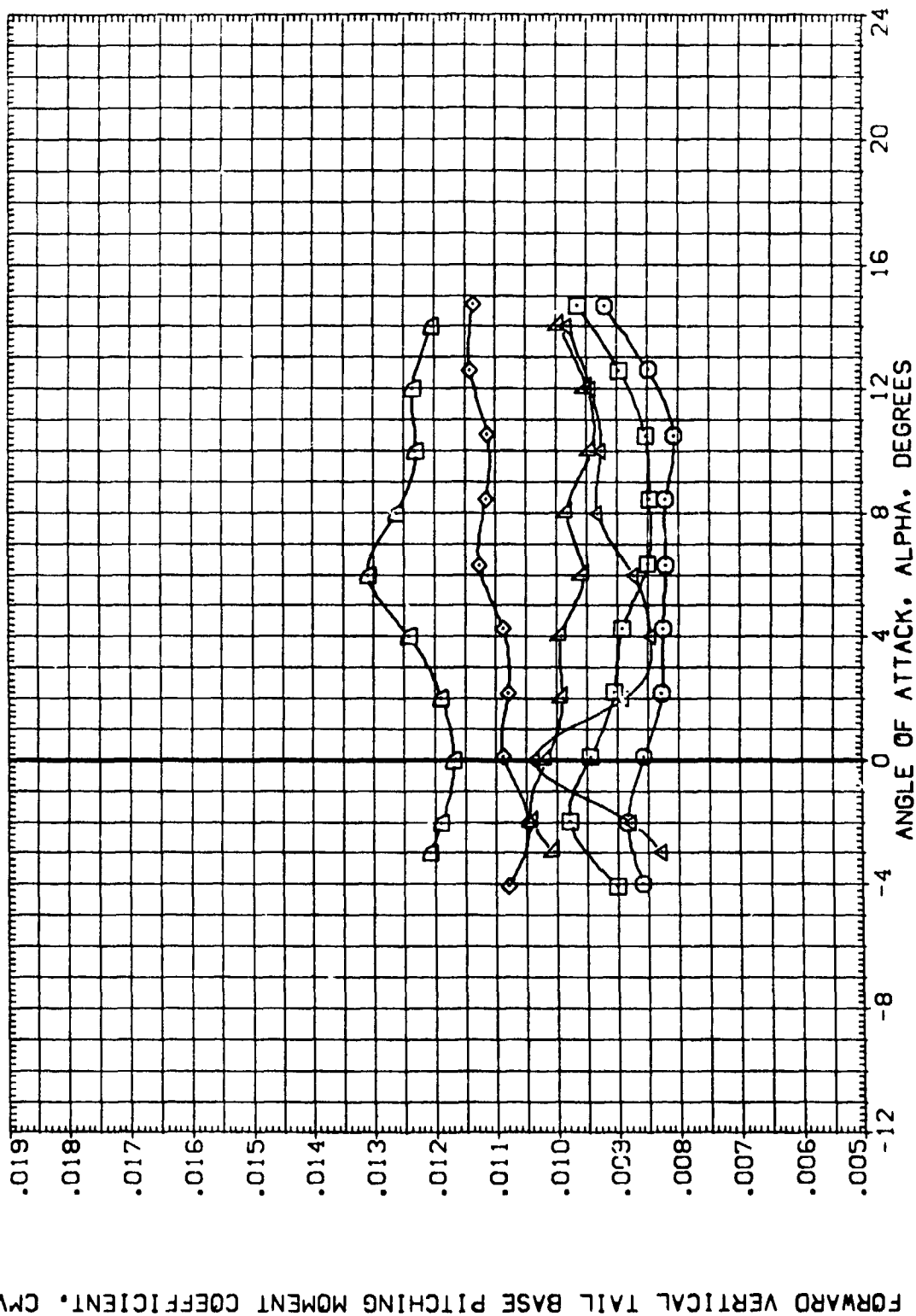


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(BER019) DATA NOT AVAILABLE .000 .000 -11.700 SREF 6053 50.FT.

(BER022) ARC 66-709 0A59 0A11A-(N24) .000 .000 .000 LREF .5935 FT.

(BER023) ARC 66-709 0A59 0A11A-(N24) .000 .000 16.300 BREF 1.1710 FT.

(ZER019) DATA NOT AVAILABLE .000 .000 -11.700 XMRP 12.6255 IN.

(ZER022) DATA NOT AVAILABLE .000 .000 .000 YMRP .0000 IN.

(ZER023) ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES) .000 .000 16.300 ZMRP -.3750 IN.

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWWD

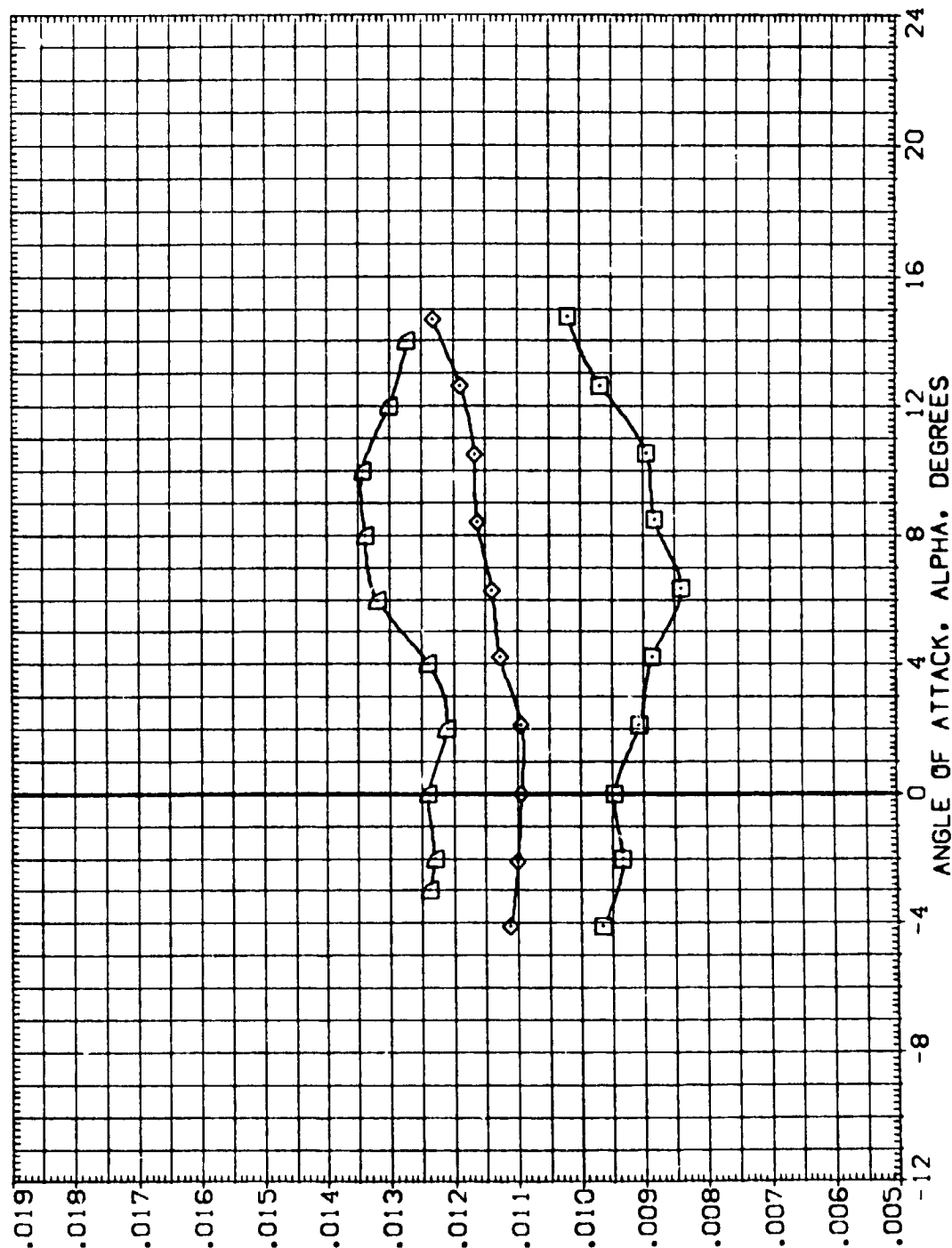


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(B019) ARC 66-709 D459 D11A-(N24)

(B022) ARC 66-709 D459 D11A-(N24)

(B023) ARC 66-709 D459 D11A-(N24)

(Z019) ARC 66-709 D459 D11A-(N24) (ADJUSTED FOR TARES)

(Z022) DATA NOT AVAILABLE

(Z023) ARC 66-709 D459 D11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

.000 .000 -11.700

.000 .000 .000

.000 .000 16.300

REFERENCE INFORMATION

SREF .6053 50. FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMPP 12.6255 IN.

YMPP .0000 IN.

ZMPP -.3750 IN.

SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWD

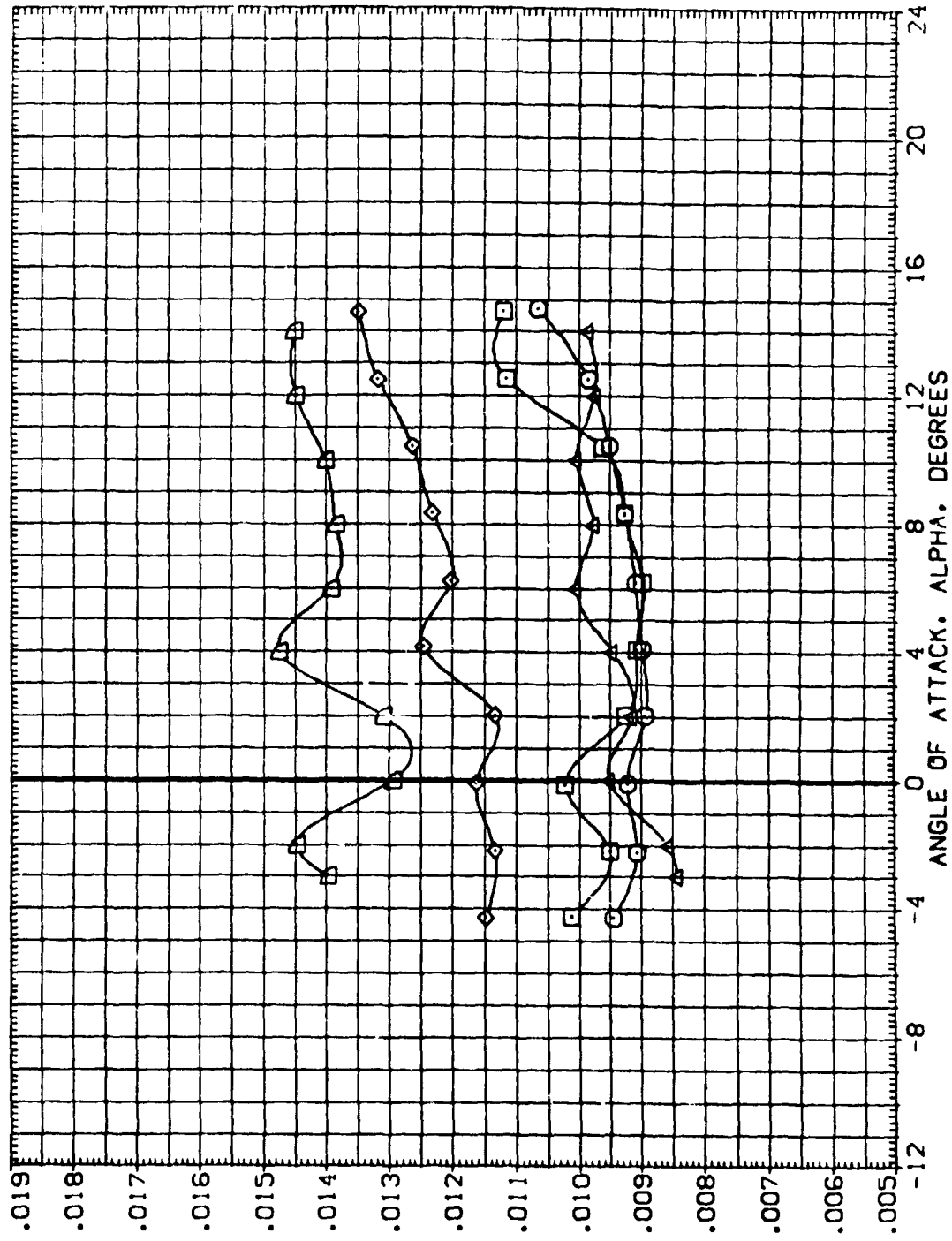


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(CMACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(ZERO19)	ARC 66-709 0459 0411A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(ZERO22)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(ZERO23)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 FT.
(ZERO19)	ARC 66-709 0459 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
(ZERO22)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP .0000 IN.
(ZERO23)	DATA NOT AVAILABLE	.000	.000	16.300	SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVFM

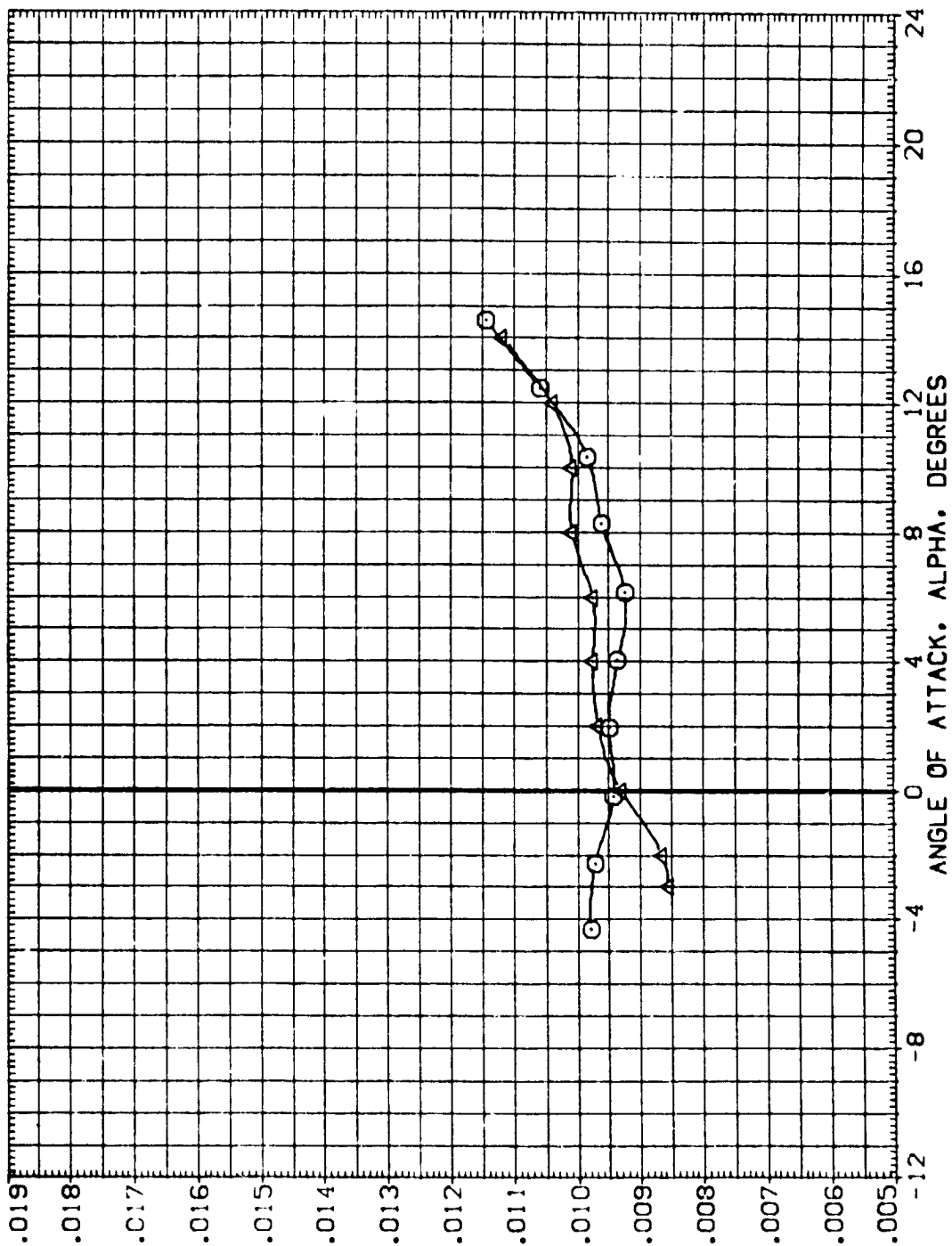


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(O)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(B019)	ARC 66-709	0A59	0A11A-(N24)
(B072)	ARC 66-709	0A59	0A11A-(N24)
(B073)	ARC 66-709	0A59	0A11A-(N24)
(Z019)	ARC 66-709	0A59	0A11A-N24 (ADJUSTED FOR TARES)
(Z022)	ARC 66-709	0A59	0A11A-N24 (ADJUSTED FOR TARES)
(Z073)	ARC 66-709	0A59	0A11A-N24 (ADJUSTED FOR TARES)

REFERENCE INFORMATION

SREF	.6053	50. FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	.000	.000
.000	.000	16.300
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFV0

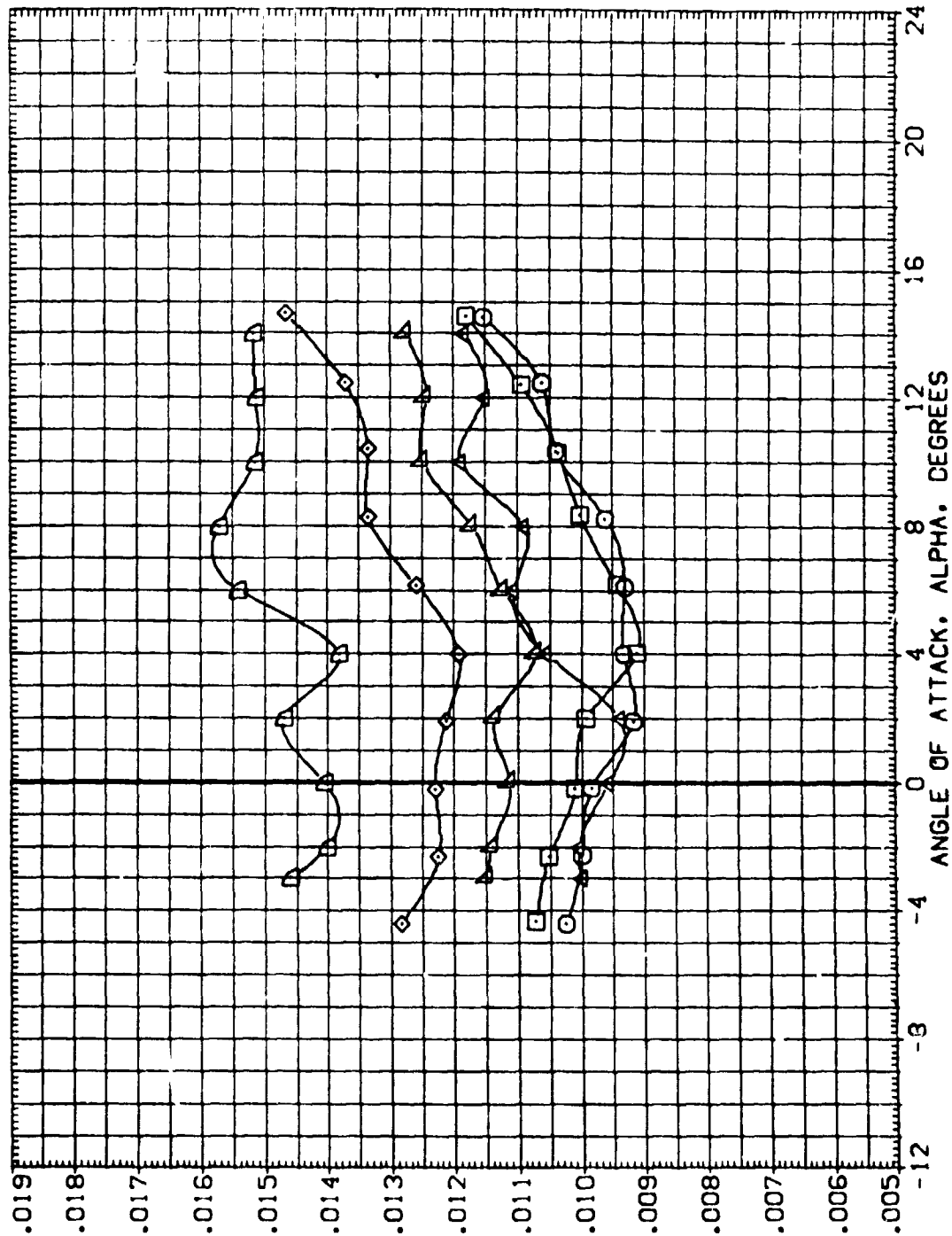


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(E)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOF LAP	REFERENCE INFORMATION
(B0019)	ARC 66-709 0459 0111A-N24	.000	.000	-11.700	SREF .6053 SQ.FT.
(B0022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(B0023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 FT.
(Z0019)	ARC 66-709 0459 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(Z0022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(Z0023)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

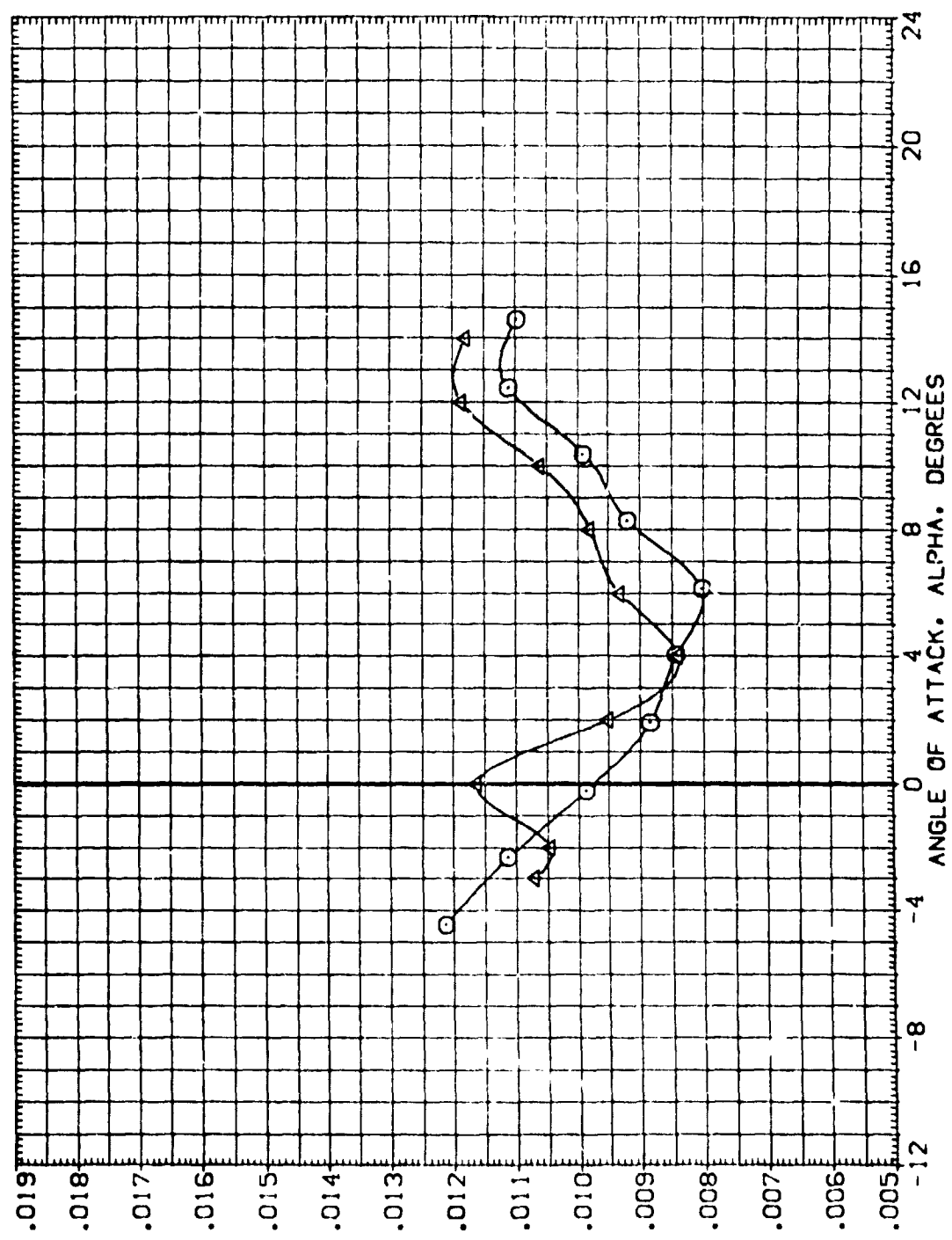


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	ED/LAP	REFERENCE INFORMATION
(BER019)	ARC 67-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(BER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	SREF .5935 FT.
(BER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	SREF 1.1710 FT.
(XERO19)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(XERO22)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	XMRP .0000 IN.
(XERO23)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	XMRP -.3750 IN.
					SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWD

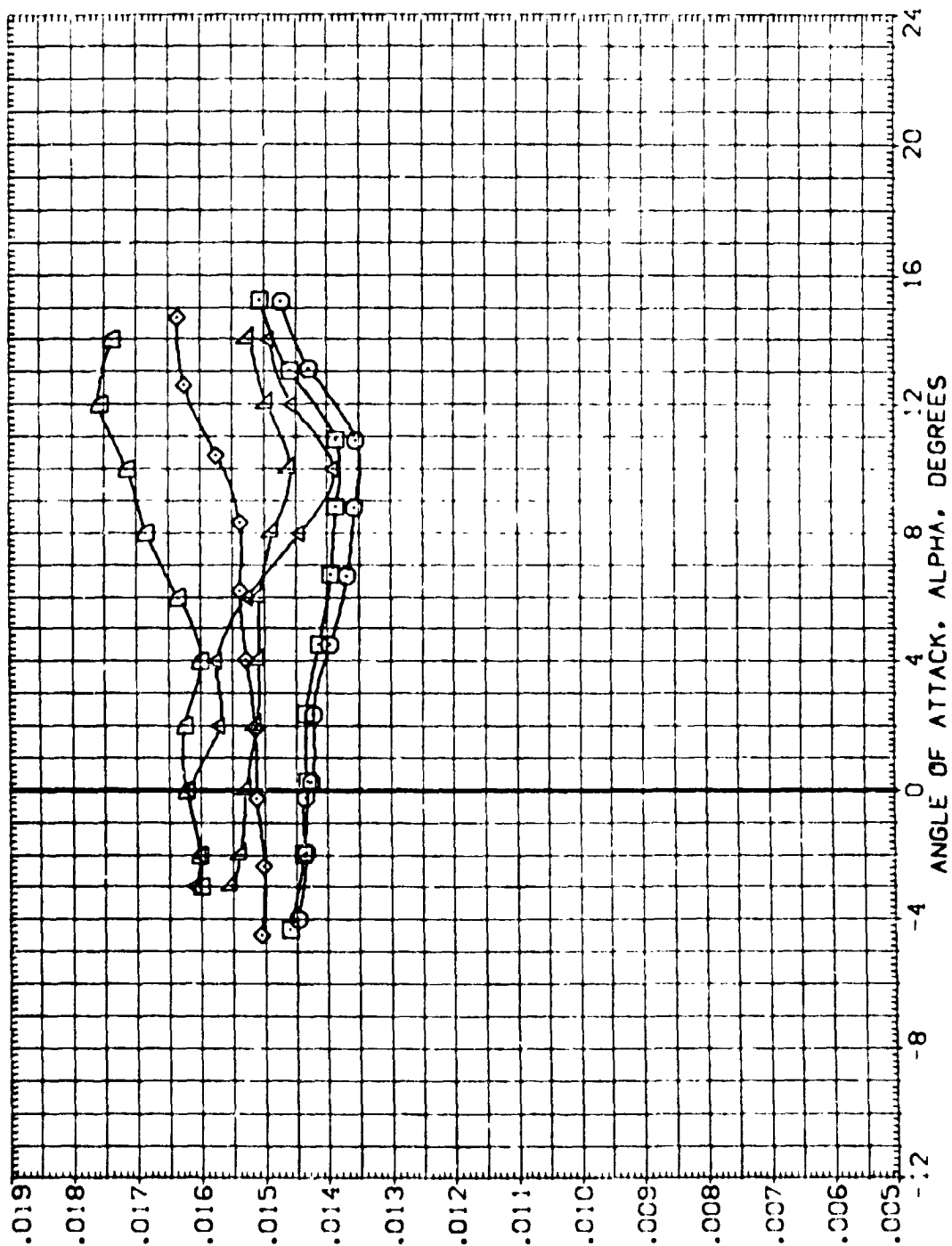


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MAC = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BE R019) Q ARC 66-709 DA59 DA11A-(N24)
 (BE R022) X ARC 66-709 DA59 DA11A-(N24)
 (BE R023) X ARC 66-709 DA59 DA11A-(N24)
 (BE R019) X ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)
 (BE R022) X DATA NOT AVAILABLE
 (BE R023) X ARC 66-709 DA59 DA11A-N24 (ADJUSTED FOR TARES)

BETA ELEVON BDFLAP

.000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300

REFERENCE INFORMATION

SREF .6053 50.1 T.
 LREF .5935 F.
 BREF 1.1710 F.
 XREF 12.6755 IN.
 YREF .0000 IN.
 ZREF .3750 IN.
 SCALE .0150

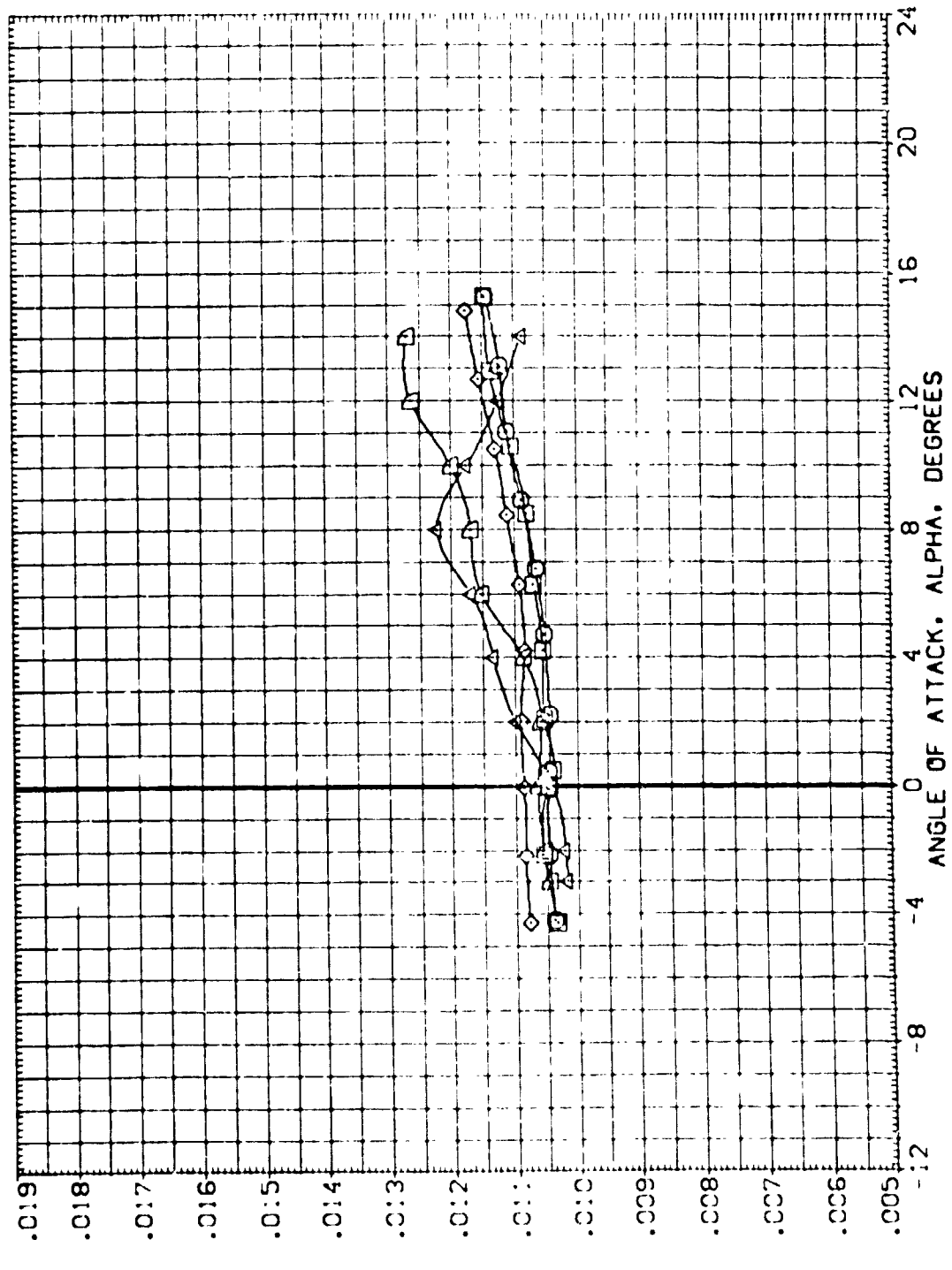


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

CMFWD - 1.50

DATA SET SYMBOL
 (B)R019
 (B)R022
 (B)R023
 (X)R019
 (X)R022
 (X)R023

CONFIGURATION DESCRIPTION
 ARC 66-709 DASS 0111A-(N24)
 ARC 66-709 DASS 0111A-(N24)
 ARC 66-709 DASS 0111A-(N24)
 ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)
 ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)
 ARC 66-709 DASS 0111A-N24 (ADJUSTED FOR TARES)

BETA
 .000
 .000
 .000
 .000
 .000
 .000

ELEVON
 .000
 .000
 .000
 .000
 .000
 .000

BOFLAP
 -11.700
 .000
 16.300
 -11.700
 .000
 16.300

REFERENCE INFORMATION
 SREF .6053 50 FT.
 LREF .5535 FT.
 BREF 1.1710 IN.
 XMPRP 12.6255 IN.
 YMPRP .0000 IN.
 ZMPRP -.3750 IN.
 SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWD

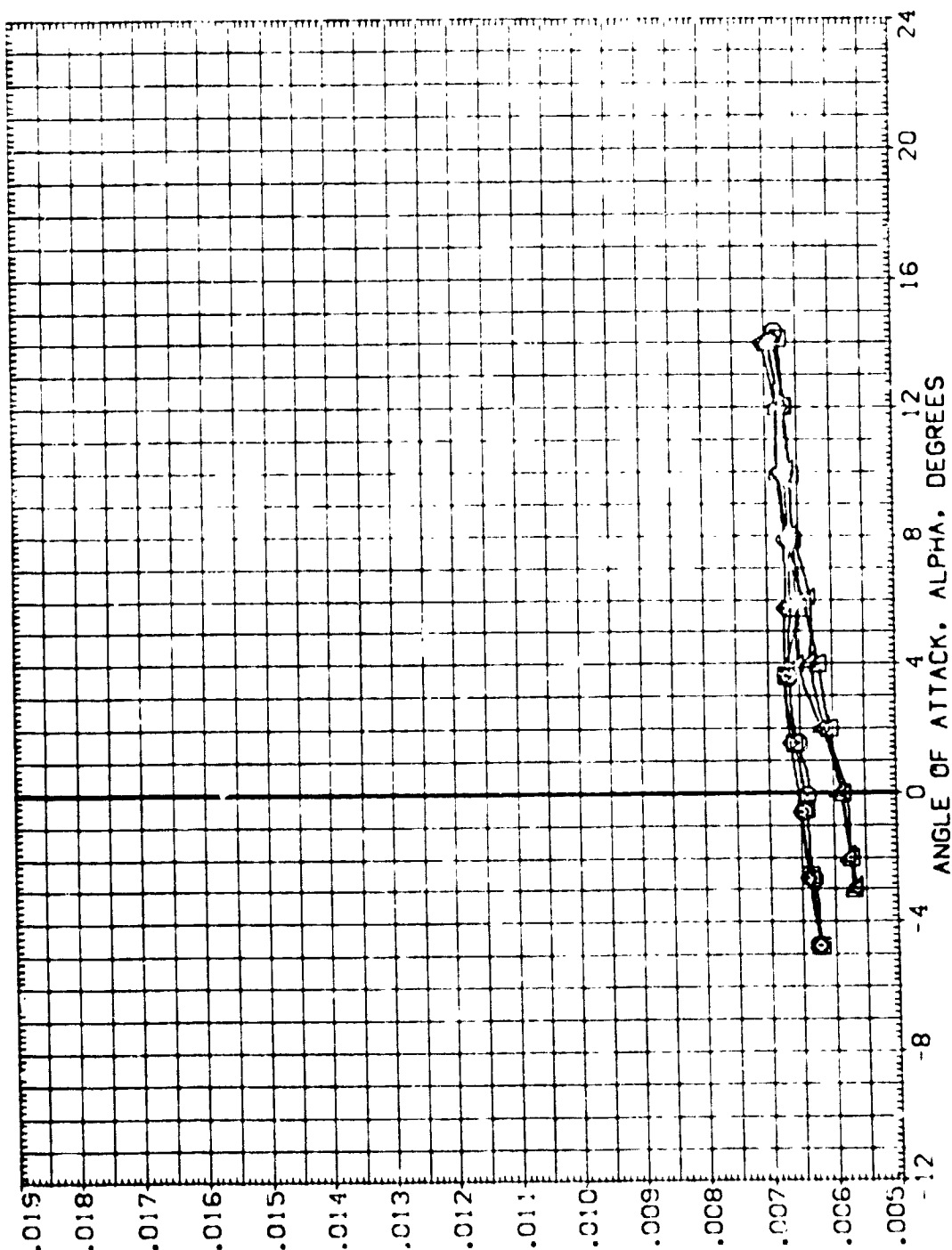


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(1)MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BE R019)	ARC 66-709 QAS9 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(BE R022)	ARC 66-709 QAS9 0A11A-(N24)	.000	.000	.000	LREF .5935 F.
(BE R023)	ARC 66-709 QAS9 0A11A-(N24)	.000	.000	.000	BREF 1.1710 F.
(ZL R019)	ARC 66-709 QAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZL R022)	ARC 66-709 QAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(ZL R023)	ARC 66-709 QAS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

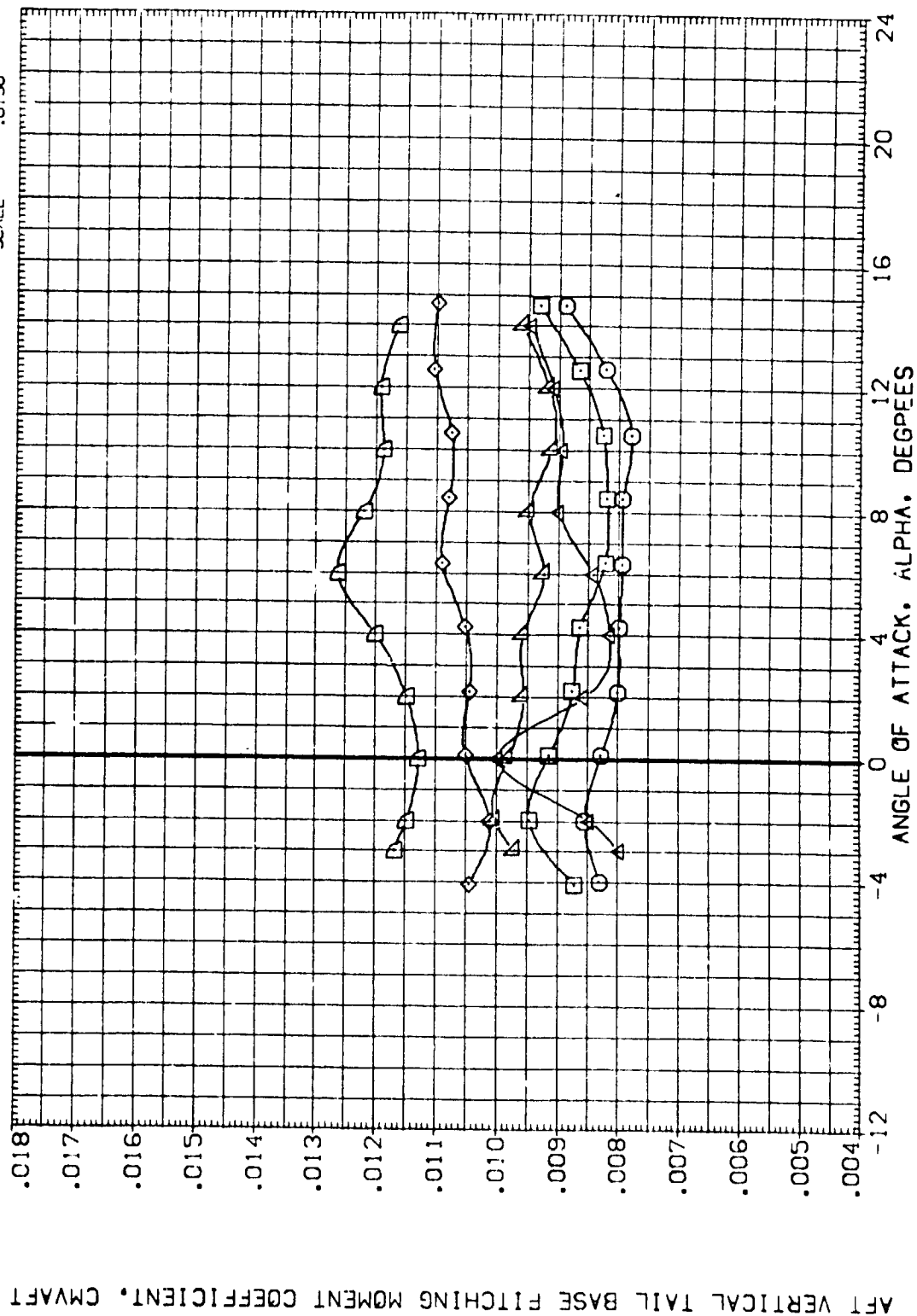


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(M)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER019)	DATA NOT AVAILABLE	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER022)	ARC 66-709 DAS9 DA11A-(N24)	.000	.000	.000	LREF .5935 FT.
(BER023)	ARC 66-709 DAS9 DA11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(ZER019)	DATA NOT AVAILABLE	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(ZER023)	ARC 66-709 DAS9 DA11A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

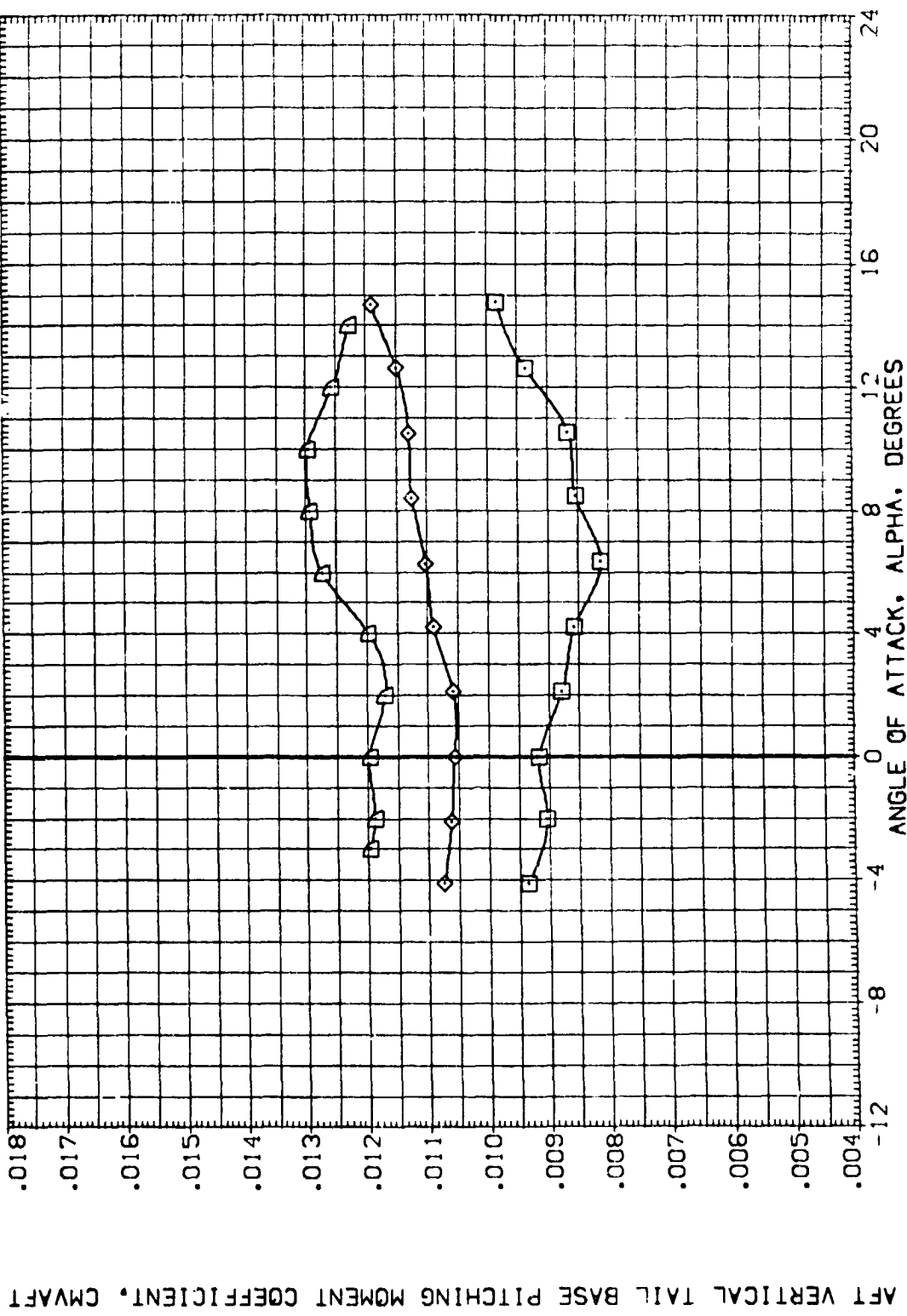


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(B)MACH = .70 PAGE 1006



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER019)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER022)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(BER023)	ARC 66-709 0A59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(ZER019)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(ZER023)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

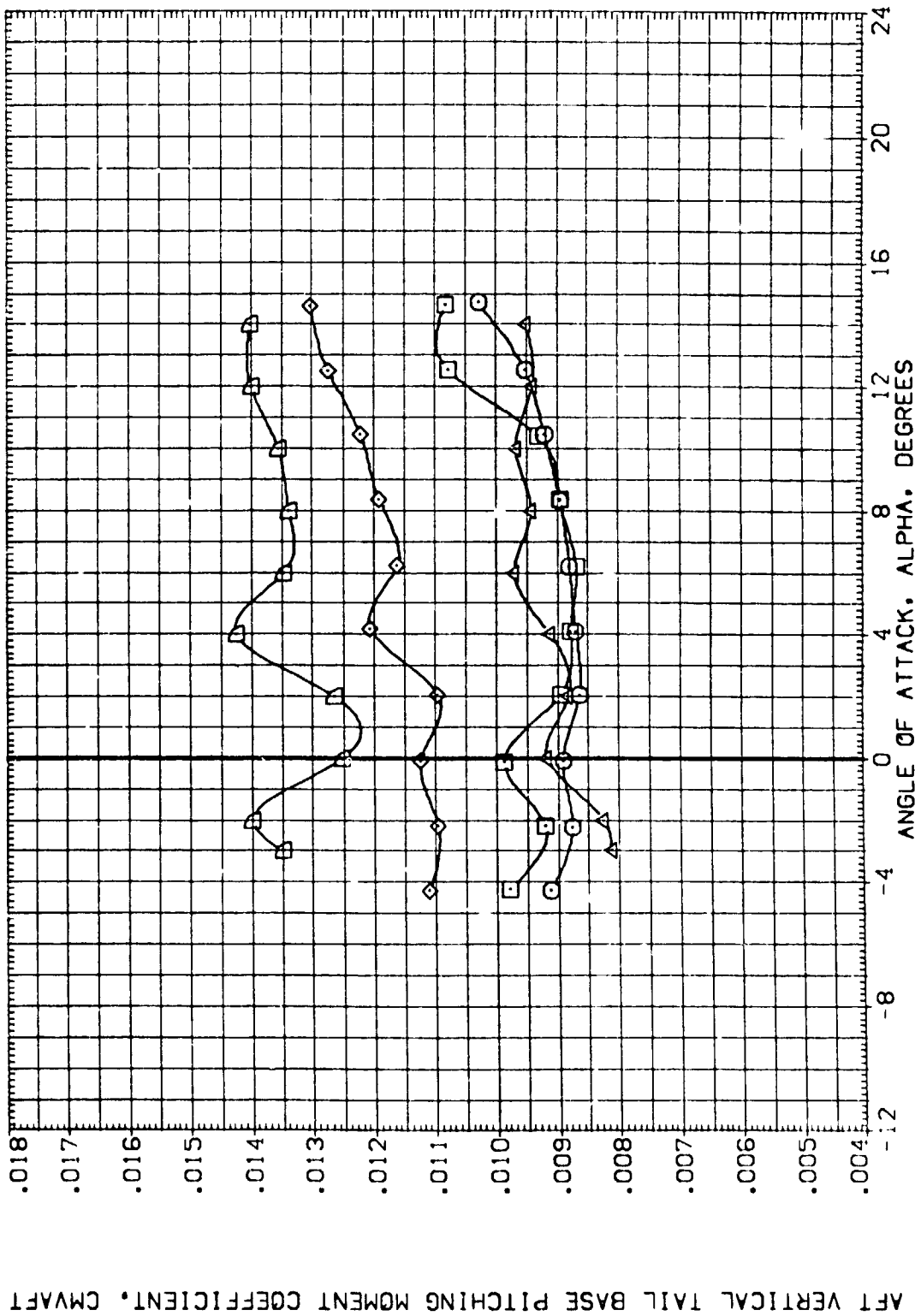


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (BER019) ARC 66-709 OAS9 011A-(N24)
 (BER022) DATA NOT AVAILABLE
 (BER023) DATA NOT AVAILABLE
 (ZER019) ARC 66-709 OAS9 011A-N24 (ADJUSTED FOR TARES)
 (ZER022) DATA NOT AVAILABLE
 (ZER023) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300
 .000 .000 -11.700
 .000 .000 .000
 .000 .000 16.300

REFERENCE INFORMATION
 SPREF .6053 SQ.FT.
 LPREF .5935 FT.
 BRPF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

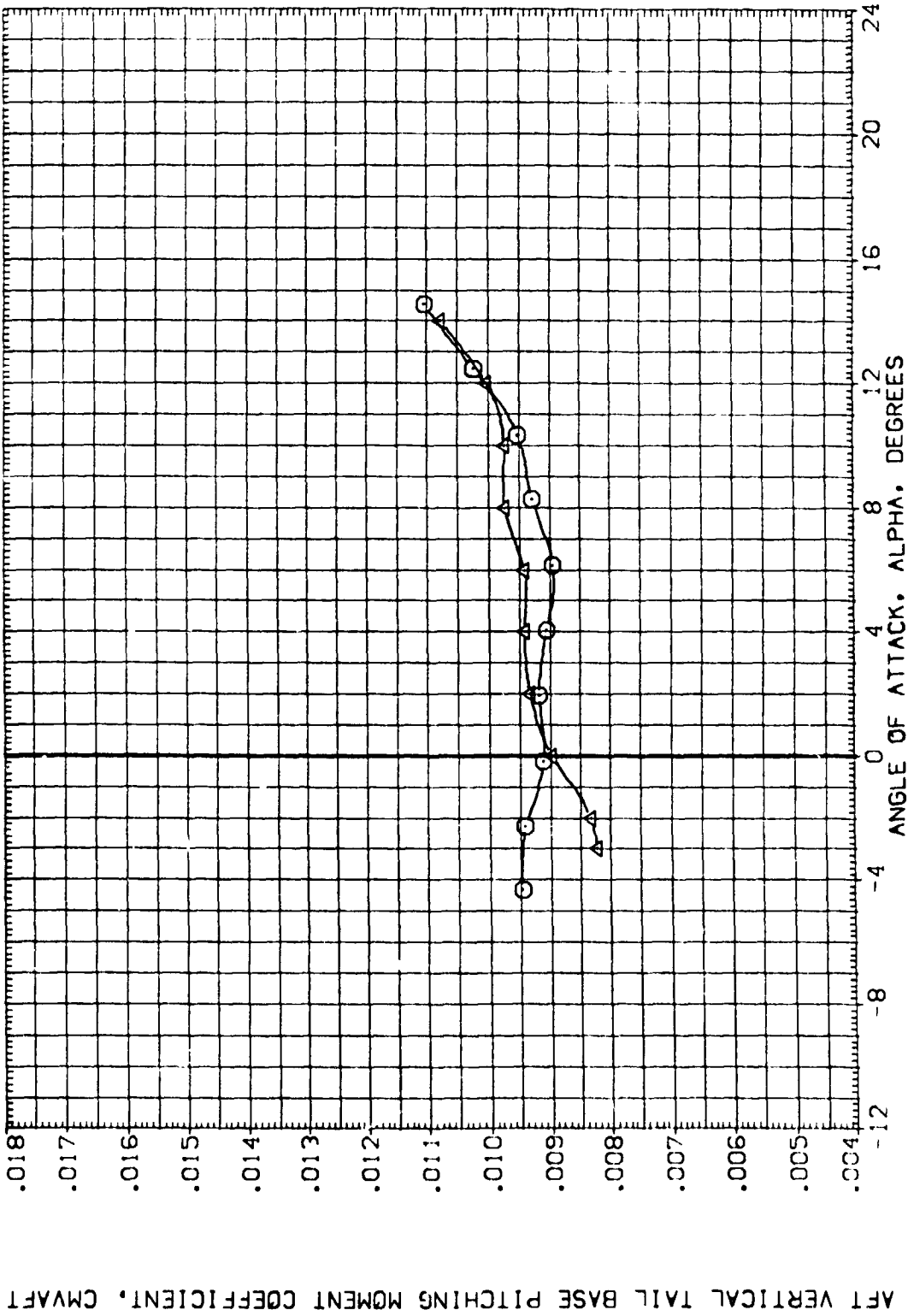


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(0)MAC .85

DATA SET SYM	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(BER019)	ARC 66-709 QA59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(BER022)	ARC 66-709 QA59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(BER023)	ARC 66-709 QA59 0A11A-(N24)	.000	.000	.000	BREF 1.1710 FT.
(ZER019)	ARC 66-709 QA59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	YMRP 12.6255 IN.
(ZER022)	ARC 66-709 QA59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	ZMRP .0000 IN.
(ZER023)	ARC 66-709 QA59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	SCALE -.3750 IN.

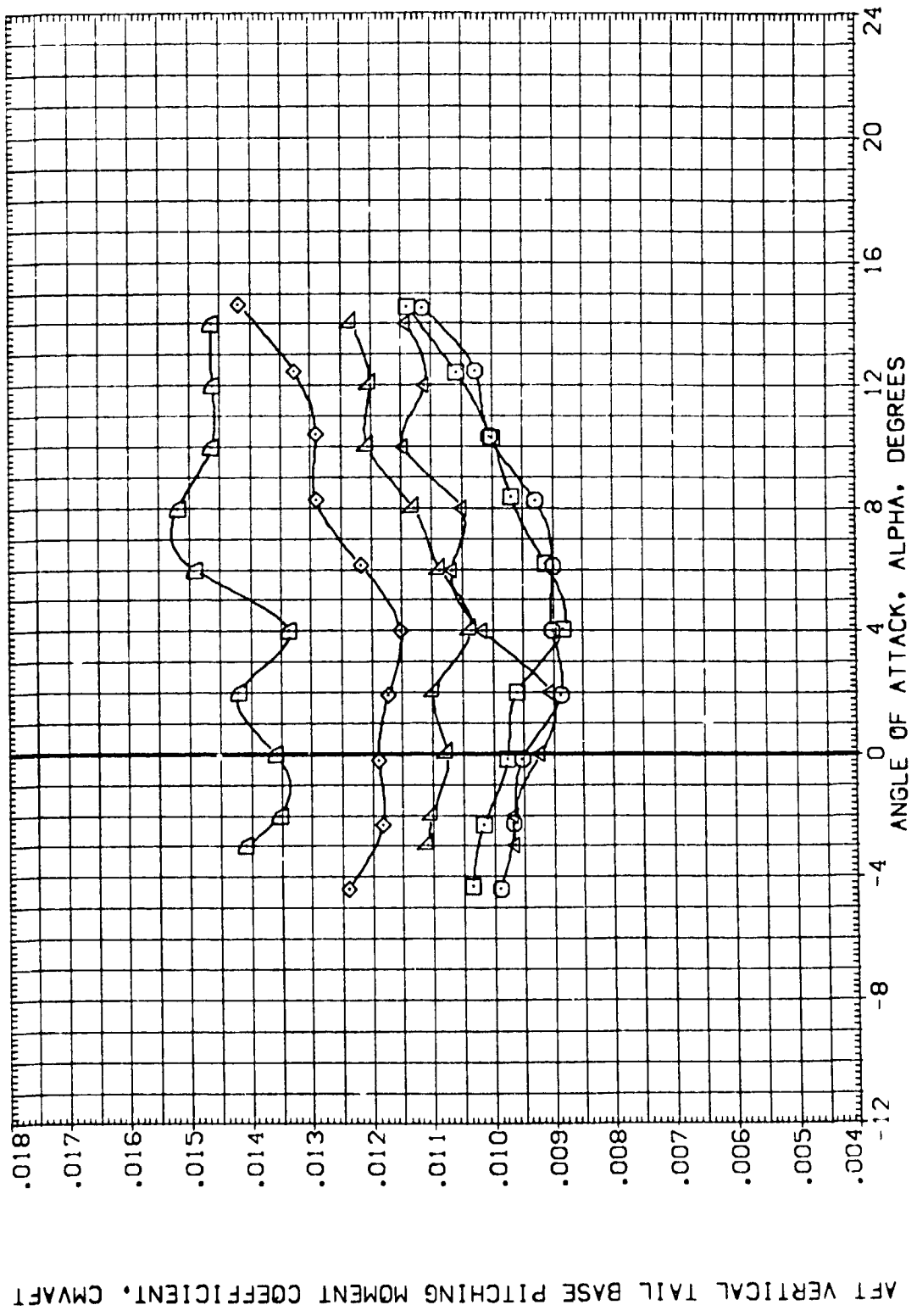


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES
(EJMAC) = .90



DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BODY LAP REFERENCE INFORMATION

(BER019)	ARC 66-709 DASS9 0A11A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(BER022)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5936 FT.
(BER023)	DATA NOT AVAILABLE	.000	.000	16.300	BREF 1.1710 FT.
(ZER019)	ARC 66-709 DASS9 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(ZER023)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

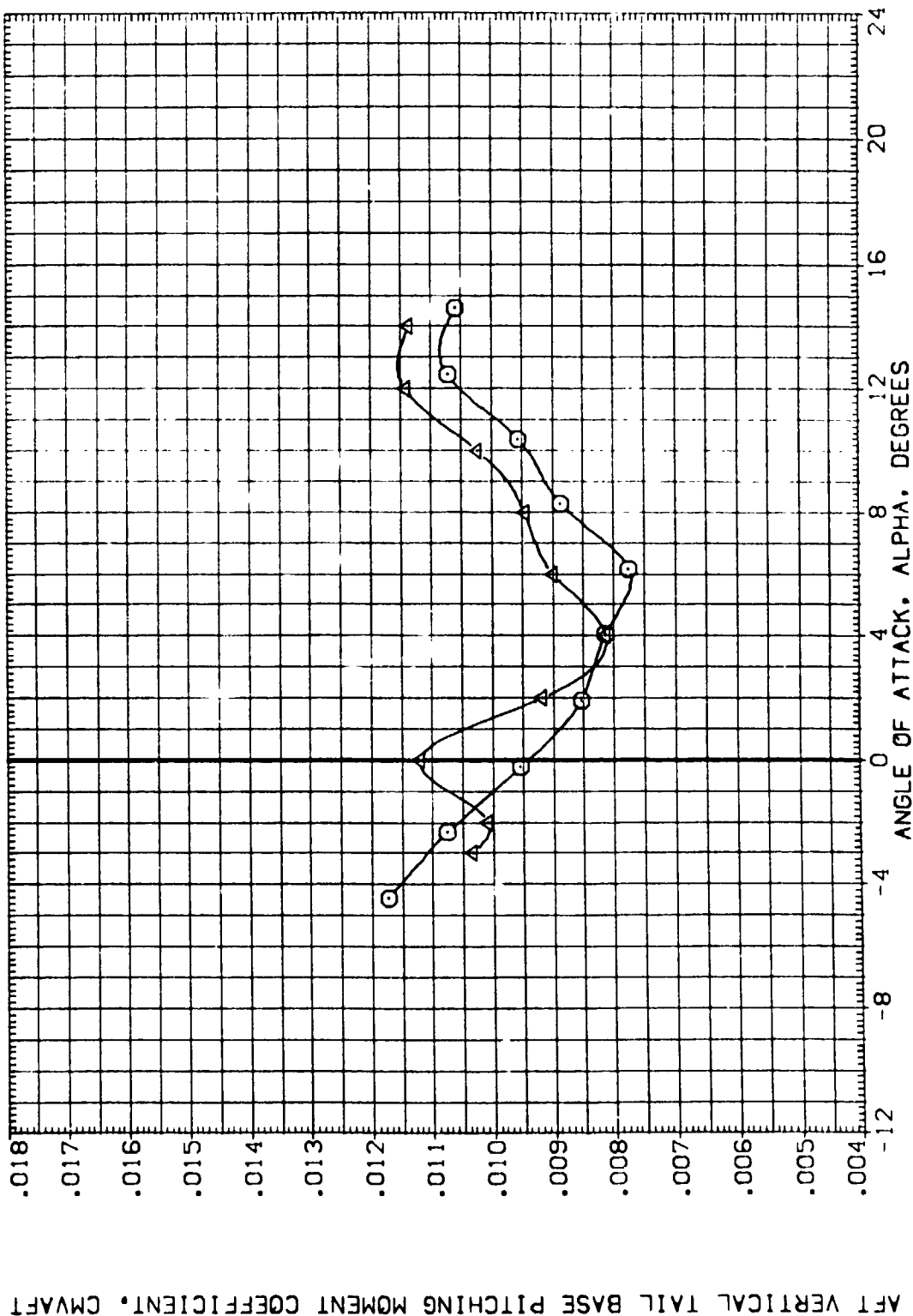


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(F)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER019)	ARC 66-709 DA59 0A11A-(N24)	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER022)	ARC 66-709 DA59 0A11A-(N24)	.000	.000	.000	LREF .5935 FT.
(BER023)	ARC 66-709 DA59 0A11A-(N24)	.000	.000	16.300	BREF 1.1710 FT.
(ZER019)	ARC 66-709 DA59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6255 IN.
(ZER022)	ARC 66-709 DA59 011A-N24 (ADJUSTED FOR TARES)	.000	.000	.000	YMRP .0000 IN.
(ZER023)	ARC 66-709 DA59 011A-N24 (ADJUSTED FNP TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

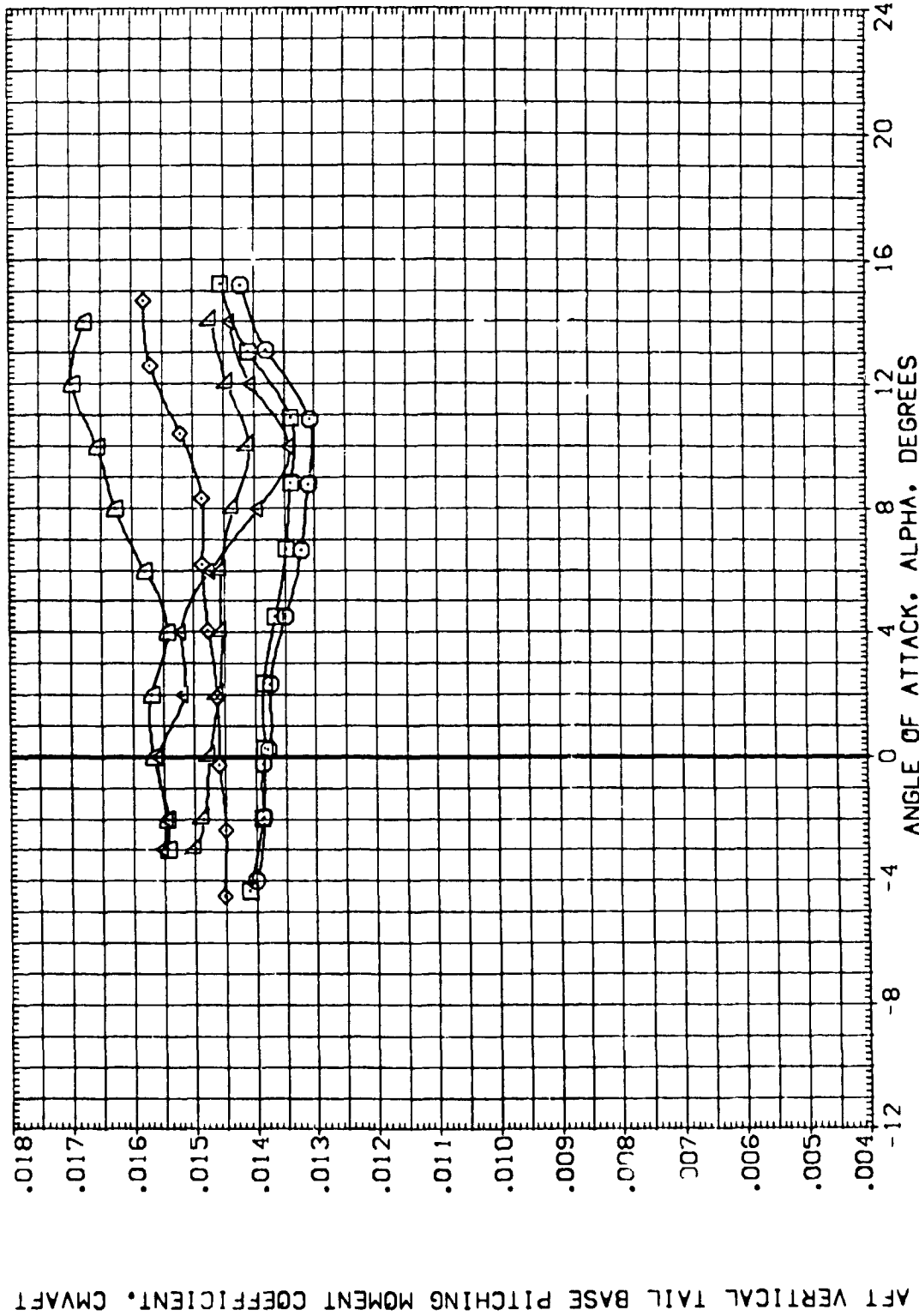


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(G)MAC = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(BER019)	ARC 66-709 0A59 0111A-(N24)	.000	.000	-11.700	SREF .6053 50.FT.
(BER022)	ARC 66-709 0A59 0111A-(N24)	.000	.000	-11.700	LREF .5935 FT.
(BER023)	ARC 66-709 0A59 0111A-(N24)	.000	.000	-16.300	LRREF 1.1710 FT.
(ZER019)	ARC 66-709 0A59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	-11.700	XMRP 12.6235 IN.
(ZER022)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(ZER023)	ARC 66-709 0A59 0111A-N24 (ADJUSTED FOR TARES)	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

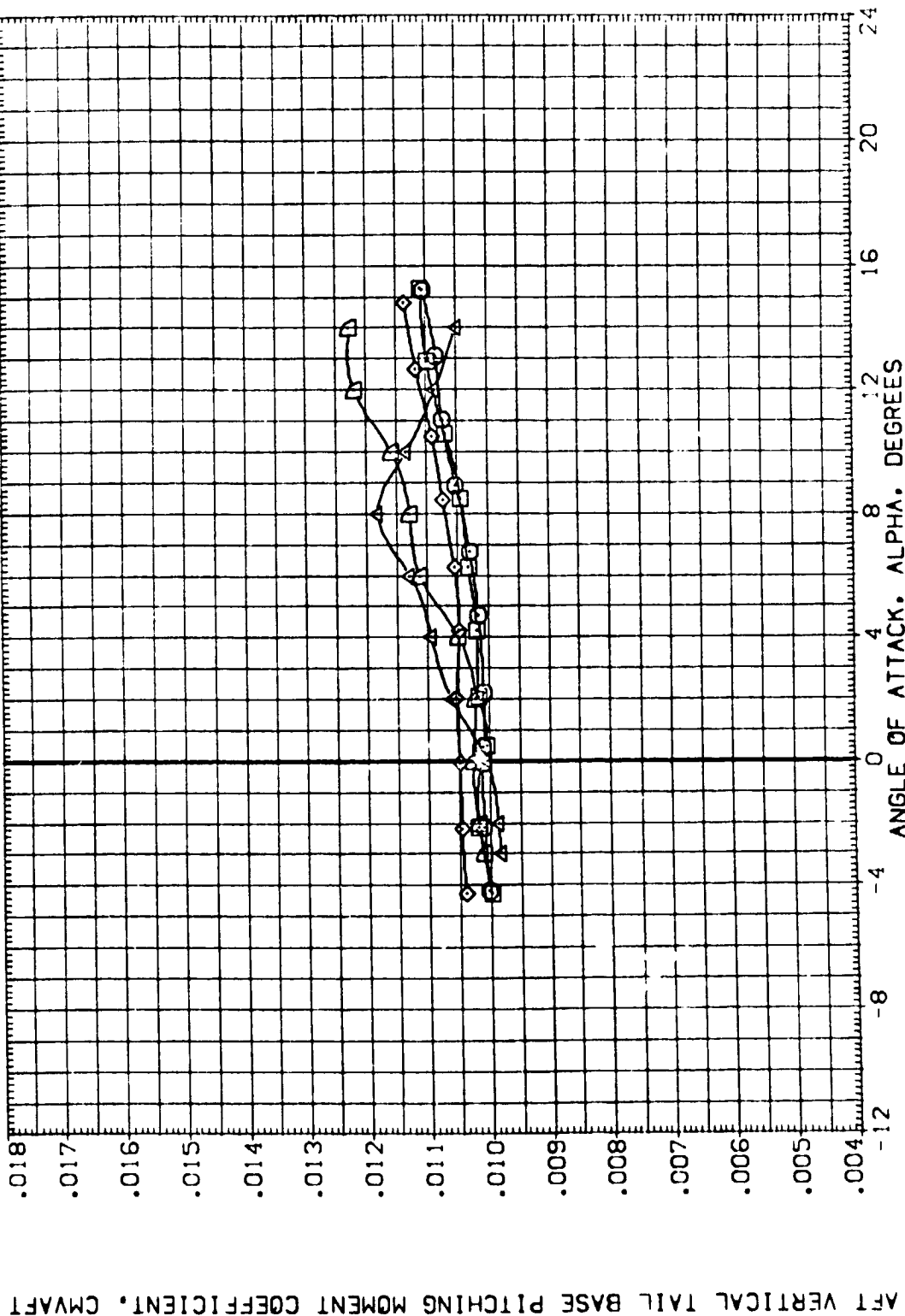


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(M)MAC = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(BER019)	ARC 66-709 DAS9 D111A-(N24)
(BER022)	ARC 66-709 DAS9 D111A-(N24)
(BER023)	ARC 66-709 DAS9 D111A-(N24)
(ZER019)	ARC 66-709 DAS9 Q11A-N24 (ADJUSTED FOR TARES)
(ZER022)	ARC 66-709 DAS9 Q11A-N24 (ADJUSTED FOR TARES)
(ZER023)	ARC 66-709 DAS9 Q11A-N24 (ADJUSTED FOR TARES)

REFERENCE INFORMATION

REFERENCE INFORMATION	UNIT
SREF	6053 SQ.FT.
LREF	5936 FT.
BREF	1.1710 IN.
XMRP	12.6235 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150

BETA ELEVON BOFLAP

BETA	ELEVON	BOFLAP
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300
.000	.000	-11.700
.000	.000	.000
.000	.000	16.300

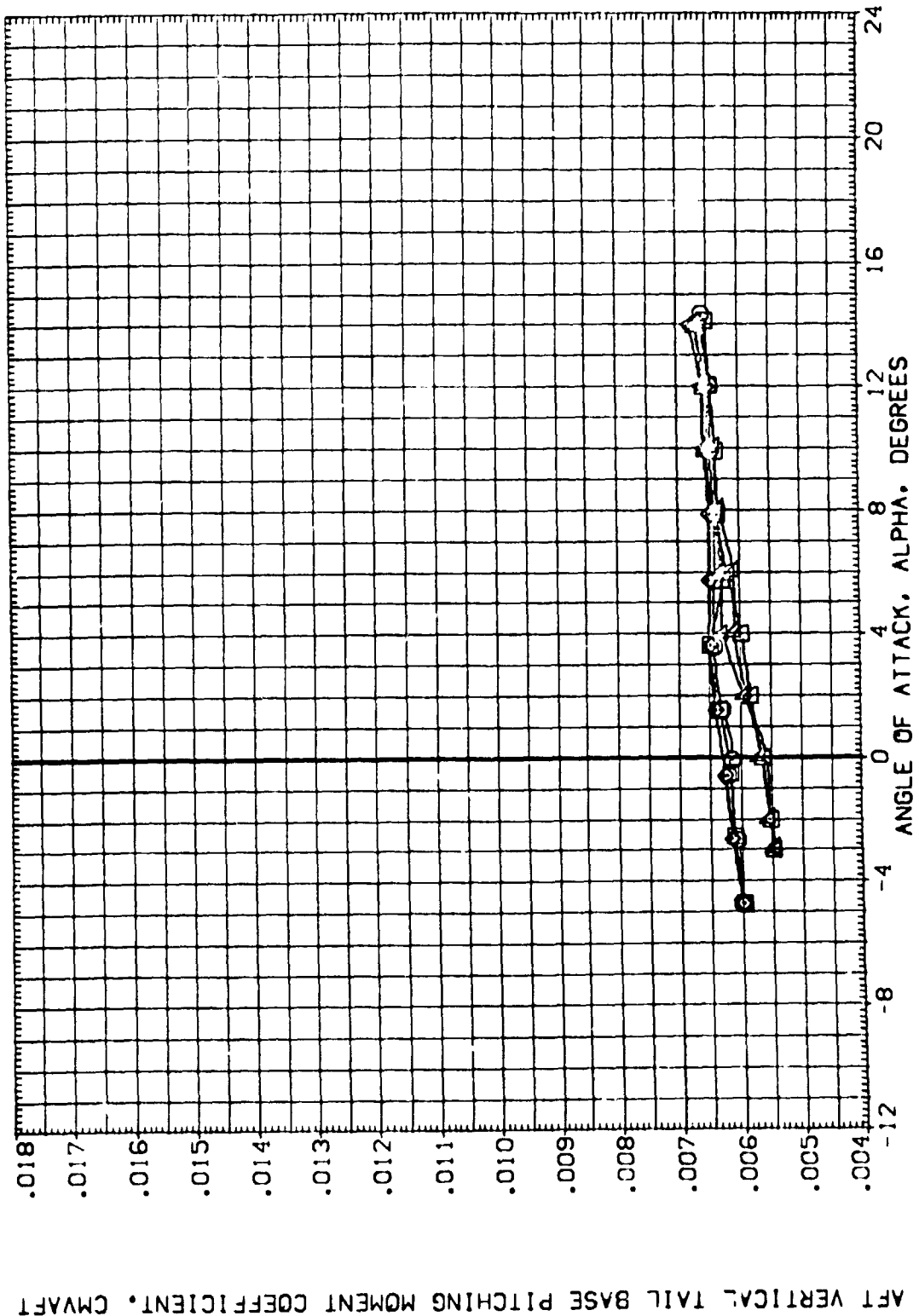


FIG. 14 BODY FLAP EFFECTIVENESS WITH/WITHOUT TARES

(1)MAC= 2.00

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	ALPHA	ELEVON	BOFLAP	REFERENCE INFORMATION
(4ER024)	ARC 66-709 0A59 011A-N24	10.000	.000	-11.700	SREF .6053 50.FT.
(1ER024)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	10.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

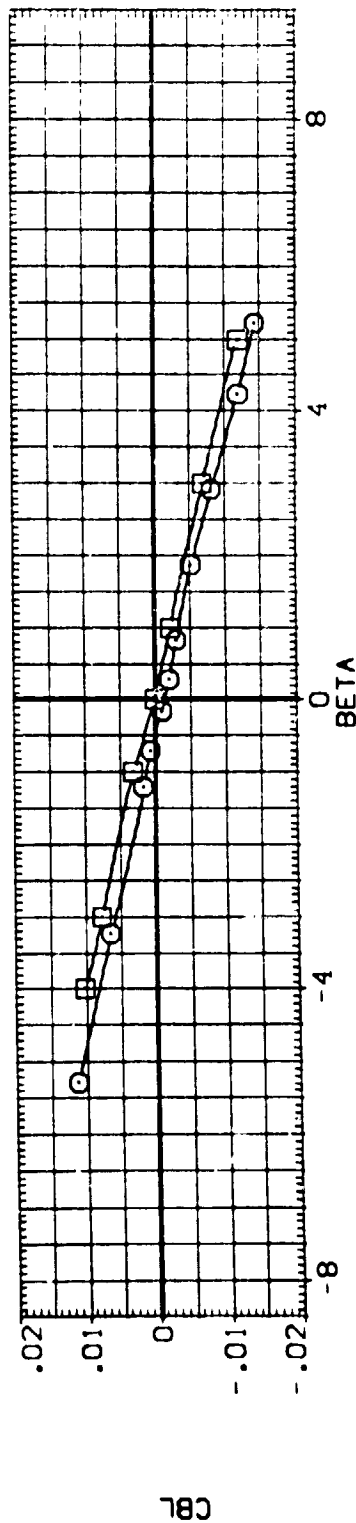
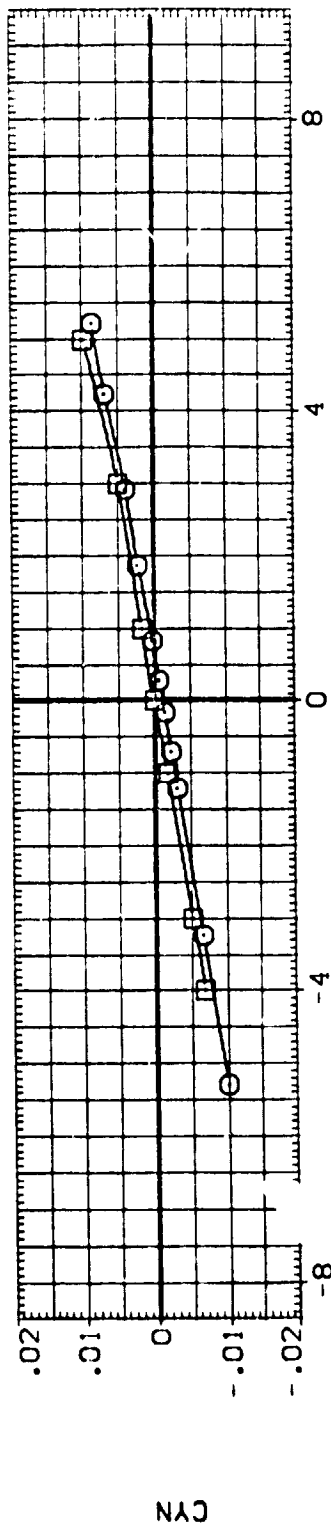
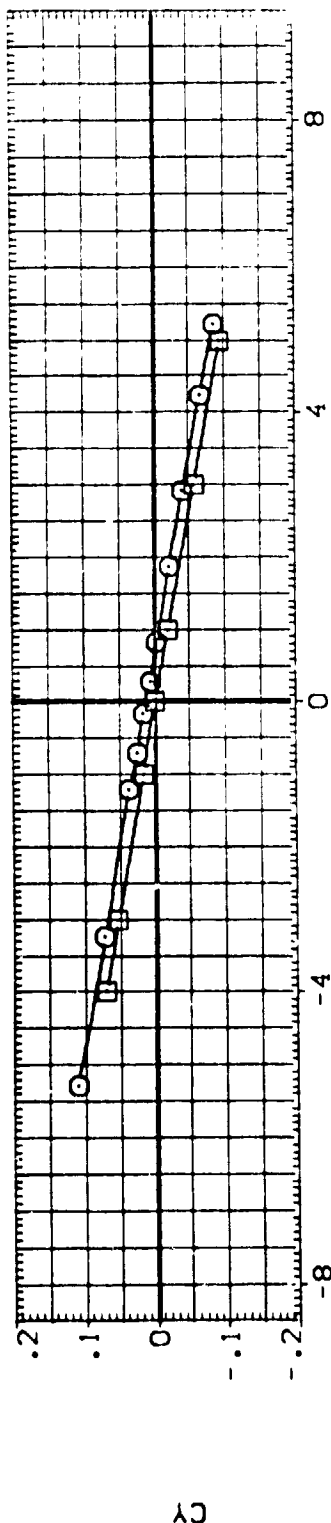


FIG. 15 YAW DATA WITH/WITHOUT TARES
(A)MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ALPHA		ELEVON		BDF LAP		REFERENCE INFORMATION	
[4LR024]	[1LR024]	ARC 66-709 QAS9	0111A-N24	10.000	.000	-11.700	SREF	.6053	50.FT.	LREF	.5935
		ARC 66-709 QAS9	011A-N24 (ADJUSTED FOR TARES)	10.000	.000	-11.700	BREF	1.1710	FT.	XMRP	12.6255
							YMRP	.0000	IN.	ZMRP	-.3750
							SCALE	.0150	IN.		

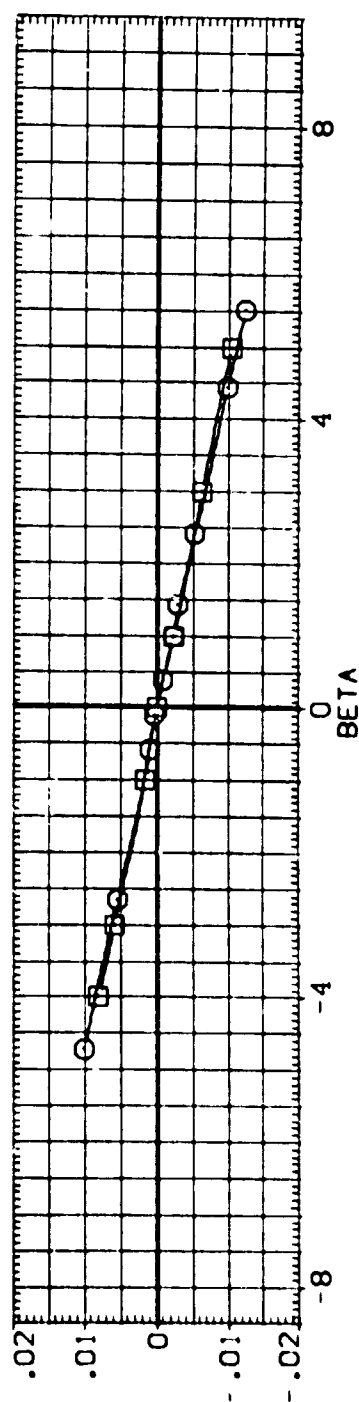
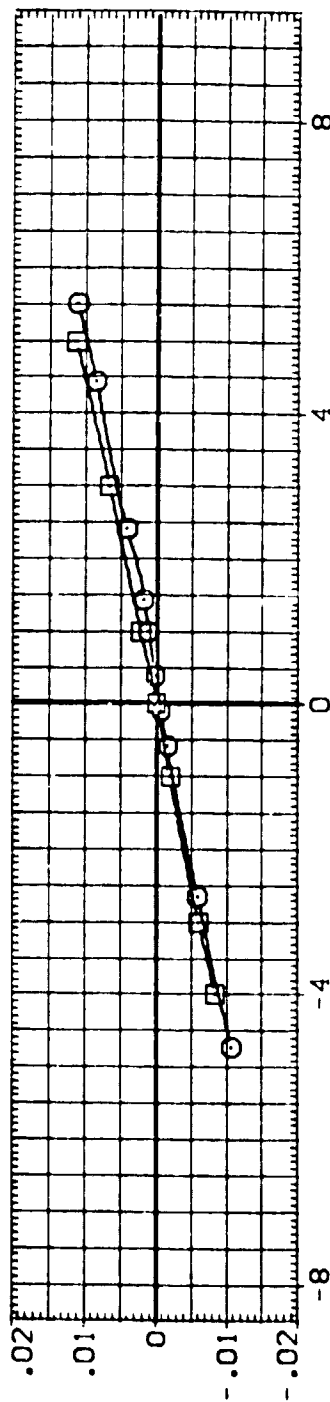
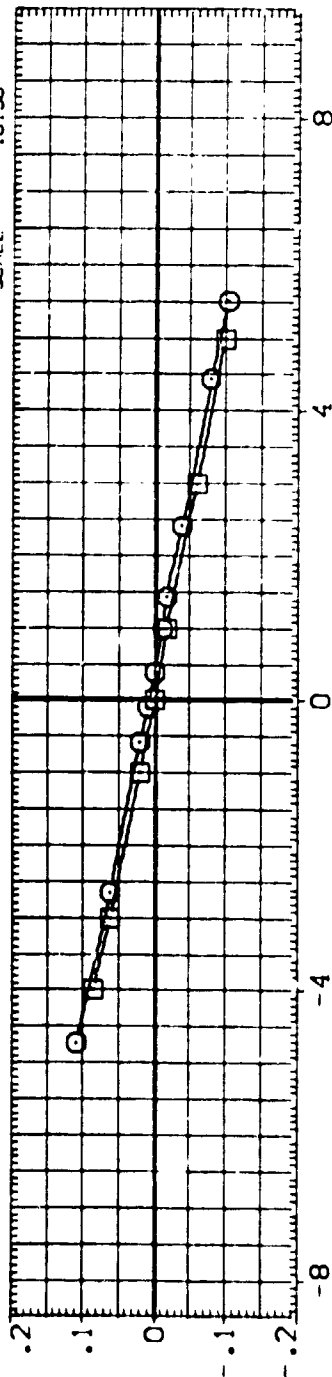


FIG. 15 YAW DATA WITH/WITHOUT TARES

(B)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVATION	BOFLAP	REFERENCE INFORMATION
(4ER024)	ARC 66-709 0A59 0A11A-N24	10.000	.000	-11.700	SREF .6053 SQ.FT.
(1ER024)	ARC 66-709 0A59 0A11A-N24 (ADJUSTED FOR TARES)	10.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

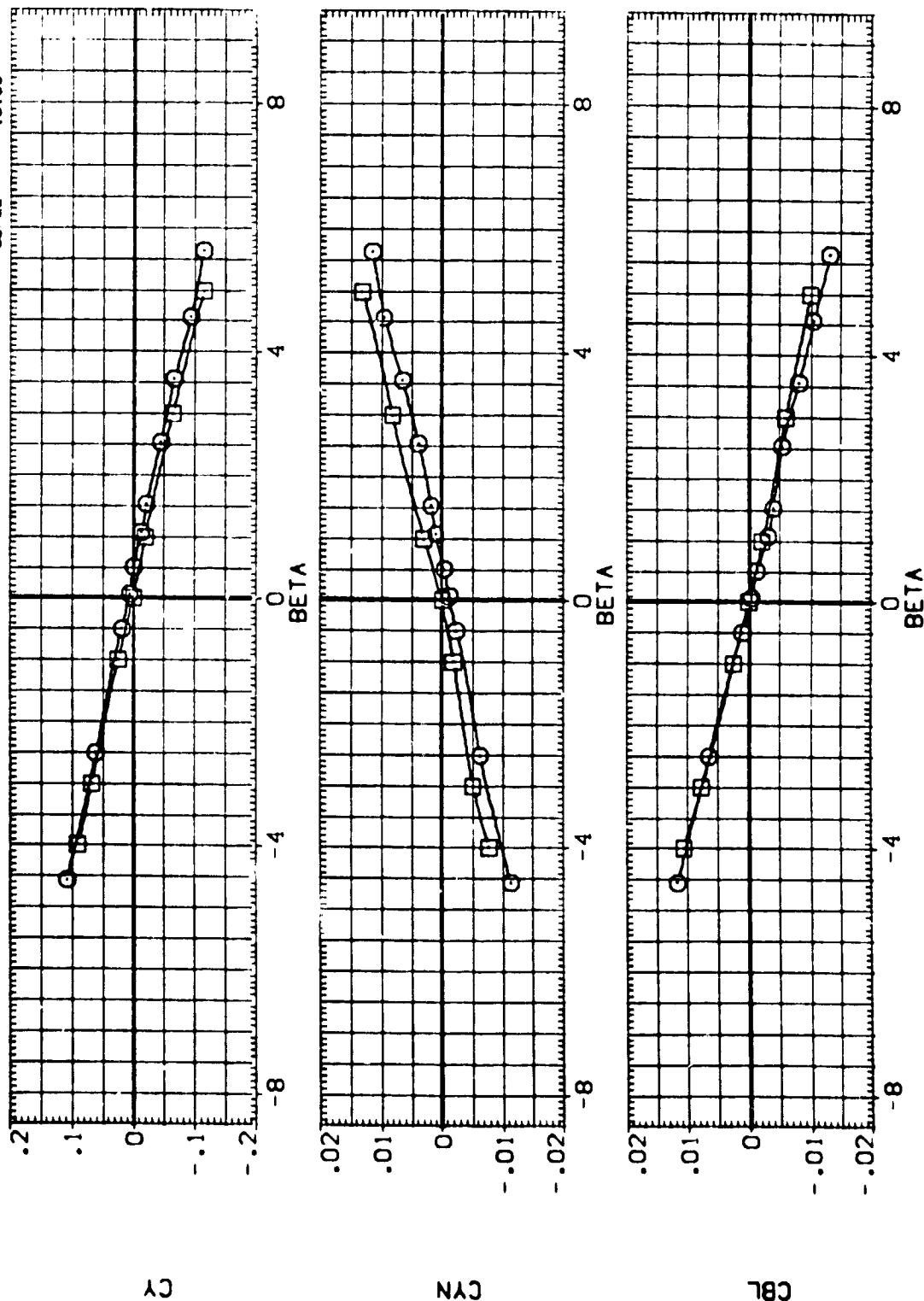


FIG. 15 YAW DATA WITH/WITHOUT TARES
(C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	BOFLAP	REFERENCE INFORMATION
(4ER024)	ARC 66-709 0A59 011A-N24	10.000	.000	-11.700	SREF .6053 50.FT.
(1ER024)	ARC 66-709 0A59 011A-N24 (ADJUSTED FOR TARES)	10.000	.000	-11.700	LREF .5936 FT.
					BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

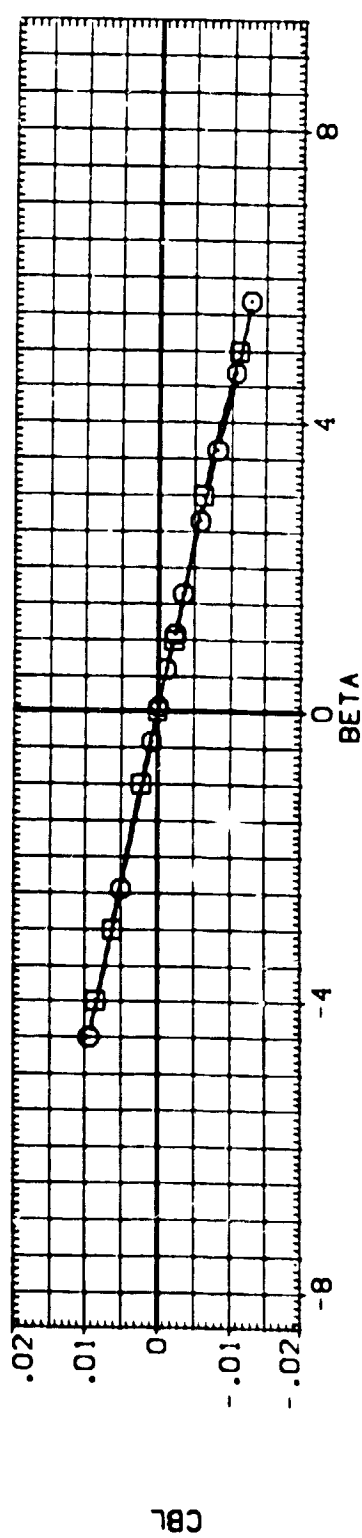
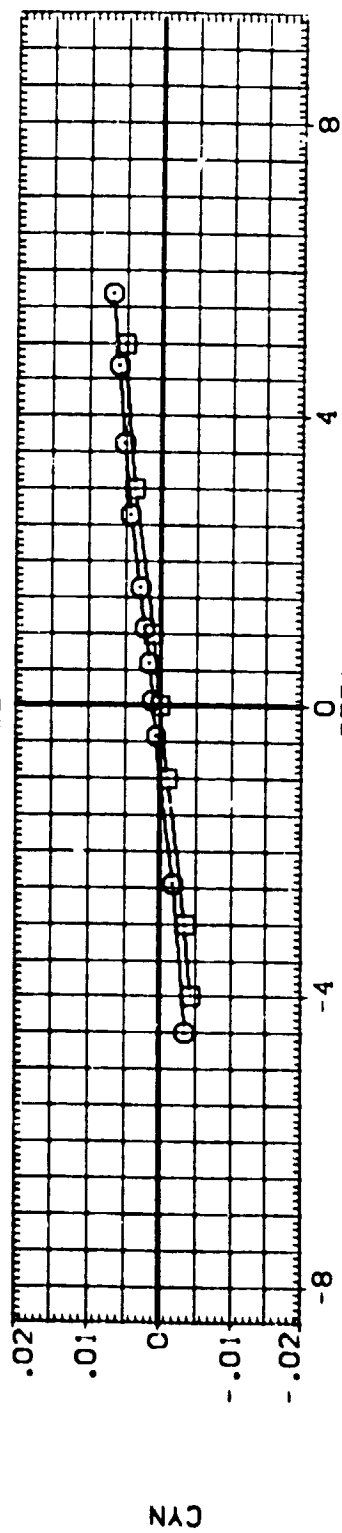
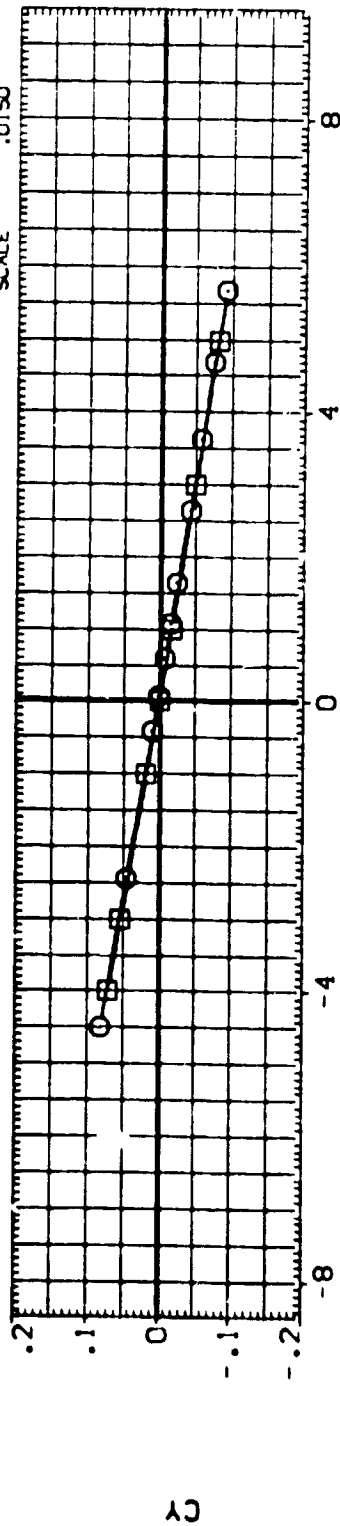


FIG. 15 YAW DATA WITH/WITHOUT TARES

(O)MAC = 1.20

DATA SET SYMBOL: CONFIGURATION DESCRIPTION
 (4E024) ARC 66-708 BASS 0A11A-(N24)
 (1E024) DATA NOT AVAILABLE

ALPHA ELEVON BDF LAP
 10.000 .000 -11.700
 10.000 .000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

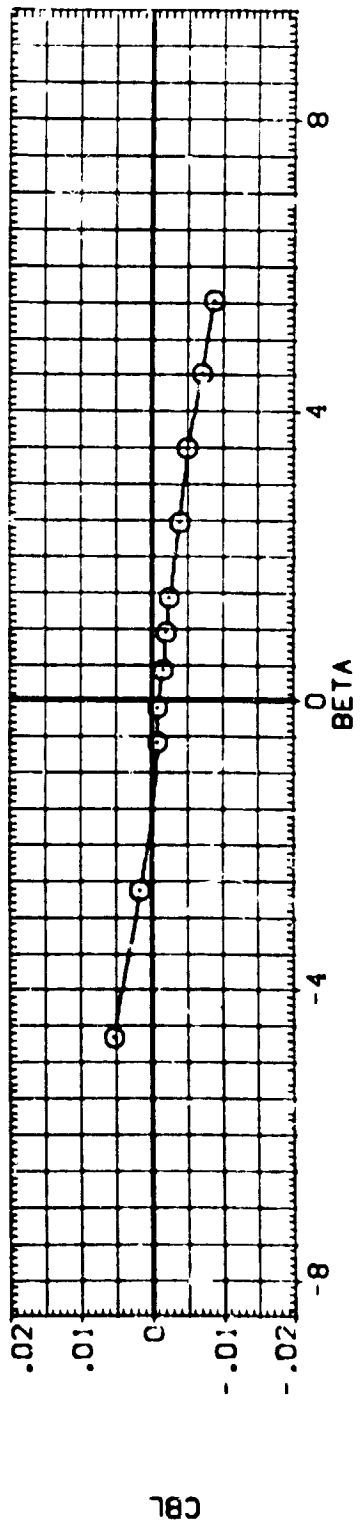
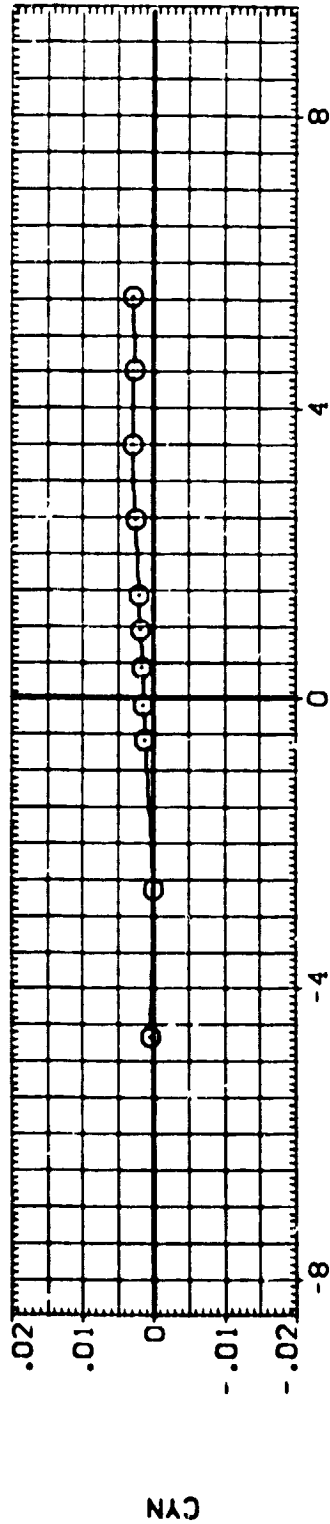
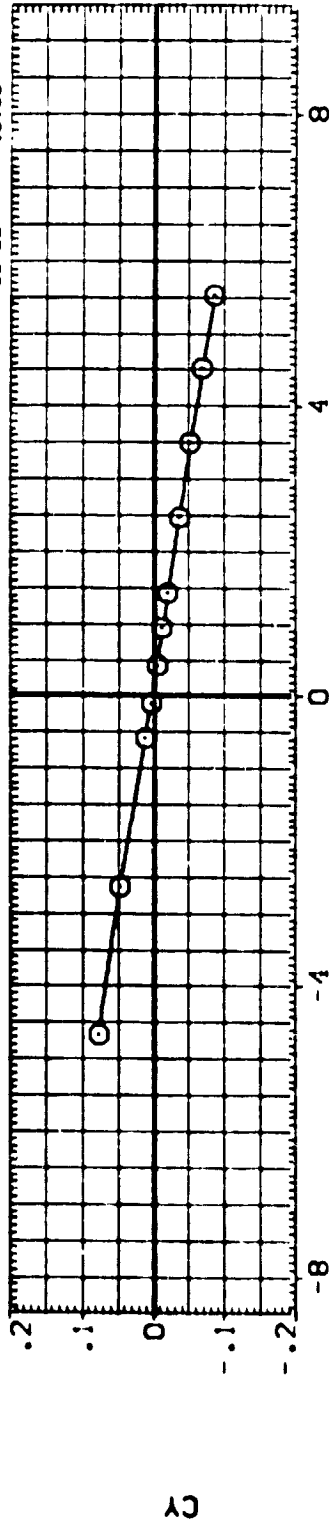


FIG. 15 YAW DATA WITH/WITHOUT TARES

(E)MACH = 1.50

APPENDIX
TABULATED SOURCE DATA

Tabulations of plotted data are available on request from
Data Management Services

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OAS9 TABULATED SOURCE DATA

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ARC 66-769 OAS9 OALIA-(N24 R5 V8)*STRUT*GUM STNG

(AERD01) (23 APR 74)

REFERENCE DATA

SECF = .6033 SQ.FT. XMRP = 12.6233 IN.
LREF = .5933 FT. YMRP = .0000 IN.
OREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
BCFLAP = -11.700

RUN NO. 36/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.599	-4.580	-4.5210	-.36920	-.20670
.600	-2.480	-.41530	-.34710	-.19640
.600	-.320	-.40310	-.34600	-.20010
.603	1.830	-.30860	-.31560	-.17180
.600	3.930	-.38400	-.33220	-.17770
.602	6.070	-.36960	-.32300	-.17260
.602	8.250	-.32990	-.29850	-.15080
.602	10.410	-.31130	-.29650	-.15790
.602	12.540	-.29840	-.29060	-.16030
.600	14.740	-.29420	-.28730	-.19430
	GRADIENT	.00763	.00495	.00388

RUN NO. 6/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.655	-4.710	-.42820	-.34230	-.20870
.700	-2.570	-.41030	-.33110	-.20540
.698	-.430	-.37560	-.31160	-.19300
.699	1.720	-.36840	-.32470	-.19390
.697	3.880	-.37680	-.30760	-.17650
.699	6.010	-.36290	-.31260	-.17750
.700	8.240	-.34700	-.32180	-.18250
.701	10.370	-.33790	-.32890	-.18640
.700	12.550	-.33360	-.33260	-.20610
.700	14.710	-.33260	-.34690	-.23750
	GRADIENT	.00580	.00353	.00334

RUN NO. 5/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.748	-4.800	-.41380	-.34690	-.22970
.752	-2.700	-.38990	-.33040	-.21780
.751	-.490	-.37760	-.32980	-.21240
.748	1.770	-.36730	-.31230	-.19390
.750	3.830	-.37030	-.32700	-.20150
.751	6.000	-.35630	-.31600	-.17890
.750	8.240	-.34750	-.33610	-.18790
.748	10.380	-.33960	-.33540	-.19250
.748	12.580	-.33980	-.34770	-.21290
.750	14.690	-.33350	-.36670	-.24320
	GRADIENT	.00432	.00270	.00362

ARC 88-709 OAS9 0A11A-IN24 R5 V8)*STRUT*GUM STNG (AER001) (25 APR 74)

REFERENCE DATA

REF = .8535 58.FT. XMRP = 12.6255 IN.
LEEF = .5935 FT. THRO = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.5750 IN.
SCALE = .5150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
BDFLAP = -11.700

RUN NO. 35/ 0 RN/L = 2.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.799	-4.950	-.39960	-.34430	-.23410
.801	-2.810	-.38340	-.35010	-.22990
.801	-.600	-.39330	-.33510	-.22050
.802	1.630	-.37090	-.33100	-.21100
.801	3.880	-.36930	-.33420	-.20100
.801	6.010	-.35930	-.33010	-.18970
.799	8.240	-.35370	-.34720	-.19640
.797	10.410	-.35110	-.35740	-.20710
.800	12.600	-.34670	-.36050	-.22300
.800	14.740	-.34530	-.37060	-.24830
	GRADIENT	.00331	.00178	.00386

RUN NO. 3/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.848	-4.980	-.41030	-.36430	-.24630
.850	-2.870	-.40580	-.37580	-.25640
.850	-.660	-.38560	-.35640	-.23600
.851	1.590	-.36800	-.36360	-.22150
.849	3.850	-.39430	-.37110	-.21380
.850	5.970	-.37980	-.37060	-.20900
.848	8.170	-.37470	-.37620	-.21320
.849	10.300	-.36810	-.37730	-.22130
.850	12.510	-.36390	-.39110	-.24640
.849	14.750	-.36350	-.39650	-.26410
	GRADIENT	.00223	-.00016	.00452

RUN NO. 34/ 0 RN/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.896	-5.050	-.41410	-.40000	-.25950
.901	-2.830	-.37310	-.38740	-.24370
.897	-.680	-.36960	-.37020	-.23520
.898	1.650	-.34960	-.34480	-.23030
.900	3.810	-.32490	-.29330	-.20410
.899	5.960	-.33270	-.29760	-.19260
.900	8.200	-.36090	-.36610	-.20310
.899	10.340	-.34340	-.38000	-.22390
.897	12.500	-.37220	-.39440	-.24490
.900	14.770	-.37750	-.41940	-.26740
	GRADIENT	.00741	.01335	.00554

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OAS9 TABULATED SOURCE DATA

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ARC 66-709 OAS9 0A11A-(N24 R5 V8)-STRUT-DUM STNG

(AER001) (25 APR 74)

REFERENCE DATA

SREF = .8033 38. FT. XMRP = 12.8233 IN.
 LREF = .5935 FT. YMRP = .0000 IN.
 OREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .090 ELEVON = .000
 BDFLAP = -11.700

RUN NO. 1/ 0 RN/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.955	-5.120	-.49650	-.32380	-.33140
.951	-2.940	-.44830	-.47020	-.30770
.952	-.610	-.41730	-.43290	-.29950
.950	1.630	-.39390	-.38100	-.27210
.950	3.900	-.41450	-.39350	-.31500
.951	5.980	-.40670	-.37430	-.25320
.948	8.230	-.44050	-.40690	-.26160
.953	10.440	-.42940	-.42280	-.27490
.951	12.600	-.44490	-.44700	-.30720
.947	14.800	-.46320	-.45290	-.34810
	GRADIENT	.00524	.01240	.00025

RUN NO. 33/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.207	-4.040	-.40650	-.49510	-.35790
1.201	-2.890	-.41630	-.50020	-.34040
1.202	-.520	-.39890	-.45680	-.32720
1.201	1.700	-.39000	-.43070	-.32640
1.201	3.960	-.34250	-.36000	-.34050
1.205	6.100	-.26200	-.30400	-.34720
1.201	8.390	-.24530	-.28370	-.35780
1.197	10.650	-.23280	-.29730	-.37890
1.201	12.860	-.24420	-.29570	-.37770
1.195	15.160	-.27270	-.33250	-.41500
	GRADIENT	.00779	.01685	.00211

RUN NO. 32/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.500	-4.820	-.29420	-.36750	-.37780
1.503	-2.710	-.30340	-.37720	-.36850
1.500	-.410	-.31760	-.39030	-.35980
1.498	1.810	-.31360	-.38480	-.32460
1.498	4.060	-.30720	-.35990	-.30320
1.499	6.210	-.29830	-.33040	-.30660
1.498	8.490	-.24540	-.29090	-.31290
1.500	10.840	-.24370	-.28880	-.32270
1.500	12.830	-.24570	-.29320	-.34270
1.499	15.060	-.24660	-.29550	-.33160
	GRADIENT	-.00162	.00036	.00868

COAST TABULATED SOURCE DATA

ABC 66-709 QAS9 QAL1A-(M24 R5 V8)+STRUT+DUM STNG

FAÑAMETRIC DATA

BETA	=	.000	ELEVON	=	.000
BCFLAF	=	-11.700			

REFERENCE DATA

```

YREF = .6533 SQ.FT.      YARP = 12.8235 IN.
LREF = .5933 FT.         YARP = .0000 IN.
ZREF = 1.1710 FT.        ZARP = -.3750 IN.
SCALE = .0150

```

RUN NO. 33/0 RN/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
2.001	-3.210	-1.6740	-0.20770	-0.24940
1.996	-3.130	-1.7790	-0.21900	-0.23370
1.998	-0.970	-1.0570	-0.22100	-0.25590
1.997	1.2400	-1.9500	-0.22740	-0.25820
1.995	3.450	-1.9690	-0.22770	-0.25360
1.999	5.560	-0.2140	-0.23390	-0.23270
2.001	7.690	-0.2340	-0.23450	-0.23460
2.001	9.820	-0.2310	-0.23620	-0.23990
2.001	12.040	-0.2010	-0.23690	-0.23960
2.001	14.190	-1.9540	-0.23590	-0.24090
	GRADIENT	-0.00304	-0.00204	-0.00509

ARC 66-709 OAS9 0A11A-(M24 R5 V6)*STRUT*OUM STNG (AER002) (25 APR 74)

REFERENCE DATA

SREF = .0033 58-FT. XMRP = 12.6255 IN.
 LREF = .5935 FT. YMRP = .0000 IN.
 ORCP = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0130

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 BDFLAP = -11.700

RUN NO. 7/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.600	-4.560	-4.4030	-3.5790	-1.9890
.601	-2.480	-4.1790	-3.4100	-1.9360
.599	-.350	-4.0970	-3.3210	-1.9570
.598	1.790	-3.9640	-3.2910	-1.8530
.601	3.980	-3.8580	-3.2160	-1.7720
.601	6.070	-3.7190	-3.2800	-1.7260
.599	8.280	-3.6640	-3.2620	-1.7980
.600	10.350	-3.3190	-3.1300	-1.7640
.600	12.520	-3.2920	-3.1540	-2.0050
.600	14.720	-3.1010	-3.0390	-2.1530
	GRADIENT	.00614	.00396	.00243

RUN NO. 4/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.603	-4.870	-4.1770	-3.4770	-2.3480
.799	-2.790	-3.9020	-3.4510	-2.2780
.602	-.590	-3.8190	-3.3400	-2.2000
.601	1.610	-3.8350	-3.2670	-2.1030
.602	3.850	-3.8140	-3.3910	-2.0420
.600	6.030	-3.6770	-3.3620	-1.9190
.799	8.210	-3.6880	-3.3640	-2.0740
.799	10.430	-3.4920	-3.3240	-2.0450
.799	12.520	-3.5040	-3.3700	-2.3120
.799	14.690	-3.4570	-3.3730	-2.5210
	GRADIENT	.00360	.00162	.00360

RUN NO. 2/ 0 RN/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.698	-5.130	-3.9570	-3.8630	-2.5050
.901	-2.920	-3.9240	-4.0420	-2.5630
.901	-.690	-3.8020	-3.8440	-2.5230
.901	1.610	-3.6660	-3.5100	-2.3480
.900	3.810	-3.5170	-3.3130	-2.2800
.900	5.940	-3.4930	-3.3090	-2.0060
.902	8.160	-3.8500	-3.9160	-2.3570
.901	10.310	-3.7640	-3.8790	-2.2790
.900	12.480	-3.7150	-4.0130	-2.5090
.698	14.690	-3.9440	-4.3340	-2.8430
	GRADIENT	.00603	.01334	.00483

DATE 29 AUG 74

0439 TABULATED SOURCE DATA

ARC 88-709 0439 0411A-(W24 R5 V8)+STRUT+DUM STNG

(AER502) (29 APR 74)

REFERENCE DATA

SREF = .0033 38.FT. XMRP = 12.6235 IN.
 LREF = .5035 FT. YMRP = .0000 IN.
 BREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

BETA = .000 ELEVON = .000
 BCFLAP = -11.700

PARAMETRIC DATA

RUN NO. 0/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.199	-5.090	-41540	-51310	-38060
1.201	-2.940	-40870	-49170	-33230
1.201	-1.680	-41260	-47550	-33920
1.200	1.620	-40100	-44220	-34610
1.203	3.400	-36370	-38370	-35500
1.202	6.050	-27880	-32370	-36320
1.201	8.290	-25810	-30390	-37840
1.199	10.550	-24180	-28760	-37270
1.196	12.780	-25660	-30670	-39460
1.201	15.010	-28100	-33740	-42060
	GRADIENT	.00647	.01583	-.00333



DATE 29 AUG 74

OAS9 TABULATED SOURCE DATA

ARC 66-709 OAS9 0A11A-(H24 R5 V0)STRUT+DUM STNG (AER003) (29 APR 74)

REFERENCE DATA

SREF = .0033 36.FT. YMRP = 12.6255 IM.
LREF = .3933 FT. YMRP = .0000 IM.
SREF = 1.1710 FT. ZMRP = -.3750 IM.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
BCFLAP = -11.700

RUN NO. 30/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.602	-4.340	-4.4850	-4.0590	-.25190
.600	-2.250	-4.4550	-3.9330	-.26060
.603	-.020	-4.3190	-3.6930	-.24660
.602	2.130	-4.2330	-3.6670	-.24110
.600	4.240	-4.0600	-3.5980	-.22910
.601	6.350	-3.9750	-3.4910	-.21930
.600	8.570	-3.8190	-3.3020	-.22870
.601	10.730	-3.7150	-3.4130	-.22960
.602	12.630	-3.6440	-3.3200	-.24420
.600	15.000	-3.5960	-3.5630	-.26330
	GRADIENT	.00590	.00552	.00303

RUN NO. 29/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.700	-4.430	-4.4550	-3.9920	-.27810
.700	-2.260	-4.2280	-3.7200	-.26490
.700	-.190	-4.0460	-3.5300	-.25470
.702	2.120	-4.0370	-3.4690	-.24730
.702	4.220	-3.9100	-3.3320	-.22660
.700	6.340	-3.9420	-3.4360	-.22660
.699	8.640	-3.7660	-3.5650	-.23710
.700	10.690	-3.7410	-3.7170	-.25165
.701	12.030	-3.6600	-3.7170	-.26110
.699	15.030	-3.7640	-4.0090	-.29380
	GRADIENT	.00589	.00723	.00554

RUN NO. 28/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.799	-4.590	-4.3140	-4.2170	-.30540
.799	-2.480	-4.0940	-3.9650	-.29020
.801	-.360	-4.1730	-3.6520	-.27310
.798	-.140	-4.0320	-3.7600	-.28770
.800	1.930	-3.8600	-3.5630	-.26530
.801	4.120	-4.0130	-3.7110	-.26380
.800	6.330	-4.0030	-3.6320	-.26420
.799	8.530	-3.9600	-3.9200	-.26760
.798	10.710	-3.9520	-4.0630	-.28020
.799	12.620	-3.9610	-4.2040	-.30030
.796	15.540	-4.1090	-4.4360	-.32910
	GRADIENT	.00418	.00643	.02490

ARC 08-709 OASB 0A11A-(N24 E5 V8)+STRUT+DUM STN

(AER003) (25 APR 74)

REFERENCE DATA

XREF = -6033 SA.FT. XMRP = 12.6255 IN.
 LREF = -5935 FT. YMRP = -0.000 IN.
 BREF = 1.1710 FT. ZMRP = -3.3750 IN.
 SCALE = .0130

PARAMETRIC DATA

BETA = .000 ELEVON = 19.000
 BZFLAP = -11.700

RUN NO. 27/ 0 RN/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.899	-4.640	-4.45080	-4.46040	-3.31150
.901	-2.570	-4.45060	-4.43560	-3.2160
.900	-4.430	-4.40340	-3.9420	-3.0980
.901	1.910	-4.40030	3.6980	-3.2750
.900	4.110	-3.80280	120	-2.2970
.901	6.270	-3.77790	60	-2.2430
.902	8.510	-4.45130	-4.4	-3.2120
.897	10.650	-4.45420	-4.4950	-3.2820
.902	12.860	-4.46900	-5.0530	-3.4580
.906	14.990	-5.0430	-5.5430	-3.7970
	GRADIENT	.00742	.01359	.00359

RUN NO. 26/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.201	-5.010	-4.7670	-5.5620	-4.7240
1.202	-2.760	-4.45740	-5.56160	-4.2770
1.202	-.520	-4.4590	-5.2390	-3.3870
1.199	1.820	-4.45300	-4.49390	-3.7730
1.200	4.060	-4.0600	-3.130	-3.7740
1.198	6.320	-3.3650	-3.37540	-3.8930
1.198	8.590	-3.0900	-3.36030	-4.0100
1.199	10.610	-3.0380	-3.35350	-4.2420
1.199	13.090	-2.9930	-3.3520	-4.3540
1.199	15.290	-3.0610	-3.35660	-4.6230
	GRADIENT	.00688	.01842	.00756

RUN NO. 25/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.902	-4.670	-3.1150	-3.7300	-4.1070
1.903	-2.610	-3.2110	-3.5830	-4.0320
1.902	-.460	-3.3000	-3.9410	-4.2340
1.902	1.620	-3.3240	-4.40120	-3.8640
1.902	4.060	-3.3060	-3.9490	-3.4350
1.499	6.310	-3.2370	-3.37090	-3.3410
1.900	8.520	-2.28780	-3.2960	-3.3400
1.499	10.710	-2.7380	-3.2000	-3.4690
1.498	12.930	-2.7610	-3.2470	-3.8440
1.498	15.220	-2.6360	-3.3130	-3.6120
	GRADIENT	-.00226	-.00280	.00687



DATE 29 AUG 74 QAS9 TABULATED SOURCE DATA

ARC 66-709 QAS9 QAS11A-(MR4 R3 V8)*STRUT*OUM STNG (AERD03) (25 APR 74)

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
BOFLAP = -11.700

REFERENCE DATA

SREF = .0033 SQ.FT. XMRP = 12.6255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 24/ 0 RM/L = 2.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.999	-5.170	-17410	-21030	-26300
1.997	-3.190	-18320	-21720	-26670
1.997	-890	-19050	-22350	-26770
1.997	1.310	-19970	-22670	-26960
1.997	3.460	-20490	-23470	-26740
1.996	5.690	-20680	-23740	-26130
1.999	7.790	-20910	-23810	-25430
2.002	9.980	-20840	-24000	-24910
2.005	11.970	-20370	-23790	-24390
2.005	14.170	-19880	-23060	-24360
GRADIENT		-.00336	-.00261	-.00018

ARC 86-709 OASD CALLIA-IN24 75 V81+STRUT+OUM STNG

(AEROSOL) (23 APR 76)

REFERENCE DATA

SRCP = .6533 SA.FT. TMRP = 12.6255 IN.
LRCP = .5935 FT. YMRP = .0560 IN.
ORCP = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0190

PARAMETRIC DATA

BETA = .500 ELEVON = 15.000
BCFLAP = -11.750

RUN NO. 12/ 0 RN/L = 2.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.803	-4.320	-4.5380	-4.1120	-2.8690
.598	-2.170	-4.3960	-4.1040	-2.6700
.601	-1.100	-4.3210	-3.7350	-2.3180
.603	2.040	-4.2030	-3.7100	-2.4180
.600	4.220	-4.0510	-3.5560	-2.2840
.597	6.360	-3.9580	-3.3370	-2.2440
.600	8.470	-3.8410	-3.1450	-2.2730
.600	10.630	-3.6860	-3.1110	-2.3370
.601	12.790	-3.5810	-3.3700	-2.4360
.599	14.950	-3.5460	-3.6310	-2.6300
	GRADIENT	.00381	.00706	.00480

RUN NO. 11/ 0 RN/L = 2.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.699	-4.430	-4.5410	-3.9410	-2.7430
.700	-2.270	-4.1910	-3.7140	-2.5630
.699	-1.140	-4.1900	-3.6020	-2.6070
.703	2.010	-3.9360	-3.4800	-2.8060
.702	4.160	-4.0010	-3.4630	-2.4010
.694	6.380	-3.9210	-3.5820	-2.3800
.699	8.530	-3.8030	-3.5190	-2.3840
.703	10.680	-3.7180	-3.6410	-2.4280
.702	12.790	-3.6660	-3.7130	-2.5800
.699	14.950	-3.7230	-3.9030	-2.8970
	GRADIENT	.00603	.00350	.00747

RUN NO. 10/ 0 RN/L = 2.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.801	-4.630	-4.2460	-4.4020	-2.9640
.804	-2.460	-4.1770	-4.0030	-2.8980
.803	-1.260	-4.0670	-3.7190	-2.7960
.803	1.920	-3.9370	-3.6320	-2.7340
.799	4.150	-3.9800	-3.5430	-2.5320
.801	6.380	-4.0270	-3.8100	-2.5970
.801	8.430	-4.0030	-3.9030	-2.6690
.801	10.720	-3.8800	-4.0180	-2.7470
.800	12.870	-4.0280	-4.3130	-3.0030
.801	14.940	-4.0860	-4.4030	-3.3160
	GRADIENT	.00330	.00812	.00487

REFERENCE DATA

REF X = .6533 50.FT. XREF = 12.8233 IN.

REF Y = .9033 FT. YREF = .0000 IN.

REF Z = 1.1710 FT. ZREF = -.3750 IN.

SCALE = .0130

PARAMETRIC DATA

BETA = .050 ELEVOM = 15.000

BCFLAP = -11.700

RUN NO.		9/ 0	RM/L = 2.48	GRADIENT INTERVAL = -5.00/ 3.00		
		MACH	ALPHA	CPV1	CPV2	CPV3
		.900	-4.020	-4.4740	-.46550	-.33260
		.906	-2.660	-.42700	-.44740	-.32450
		.903	-.430	-.41020	-.40050	-.31900
		.902	1.950	-.37880	-.36080	-.29190
		.899	4.080	-.37490	-.33670	-.28330
		.894	6.220	-.39680	-.40360	-.28260
		.897	8.450	-.42370	-.46520	-.30720
		.902	10.580	-.43700	-.48470	-.31670
		.903	12.730	-.46260	-.51080	-.34510
		.903	14.970	-.48770	-.51100	-.35240
		GRADIENT		.00864	.01339	.00606

QAS9 TABULATED SOURCE DATA

DATE 29 AUG 74

ABC 66-759 QAS9 QALIA-(M24 R3 V0)-STRUT-CUM SING (AERODS) (25 APR 74)

REFERENCE DATA

REF 1 .0533 30-FT. KREF = 12.6235 IN.
 REF 2 .5935 30-FT. YREF = .0500 IN.
 REF 3 1.1710 30-FT. ZREF = -.3750 IN.
 SCALE = .0190

PARAMETRIC DATA

BETA = .0500 ELEVOM = .000
 BDFLAP = 16.359

RUN NO. 16/ U RM/L = 2.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.600	-4.310	-4.7510	-5.1660	-2.7440
.598	-2.430	-4.4200	-5.1290	-2.5490
.602	-3.310	-4.4720	-5.1360	-2.6530
.605	1.910	-4.3750	-5.1560	-2.7520
.601	3.980	-4.2370	-4.9670	-2.5510
.601	6.190	-4.0160	-4.9140	-2.3140
.602	8.230	-4.0570	-4.8840	-2.3390
.601	10.450	-3.9350	-4.7840	-2.3940
.601	12.320	-3.8400	-4.7150	-2.3330
.602	14.660	-3.9390	-4.6740	-2.4500
GRADIENT		.00502	.00197	.00437

RUN NO. 15/ U RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.702	-4.660	-4.7510	-5.1970	-2.9420
.699	2.540	-4.4360	-5.1740	-2.8590
.700	-3.390	-4.3000	-5.1560	-2.7250
.702	1.760	-4.3380	-5.0770	-2.6150
.701	3.900	-4.4660	-5.0960	-2.5680
.698	6.100	-4.2170	-4.9650	-2.3580
.702	8.260	-4.0530	-4.8940	-2.4170
.699	10.430	-4.0600	-4.7650	-2.3520
.704	12.670	-4.1460	-5.0590	-2.5400
.701	14.740	-4.2490	-5.0930	-2.6670
GRADIENT		.00210	.00140	.00463

RUN NO. 14/ J RM/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.800	-4.860	-4.7440	-5.2090	-3.1550
.801	-2.760	-4.7490	-5.1840	-2.9420
.802	-3.960	-4.8200	-5.3590	-2.3350
.801	1.620	-4.7230	-5.2970	-2.7430
.800	3.760	-4.6560	-5.3420	-2.6260
.797	5.940	-4.4940	-5.3140	-2.3140
.799	8.120	-4.4350	-5.2640	-2.5620
.799	10.360	-4.4340	-5.3260	-2.6260
.798	12.430	-4.4170	-5.3130	-2.6400
.800	14.700	-4.6120	-5.4450	-2.8460
GRADIENT		.00146	.00102	.00361

DATE 29 AUG 74

OAS9 TABULATED SOURCE DATA

PAGE 13

ARC 66-759 OAS9 OALIA-IN24 K5 V81-STRUT+CUM STMG

(AER005) (25 APR 74)

REFERENCE DATA

SRF = .6033 92.FT. XMRP = 12.6255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BRF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVON = .000
BDFLAP = 16.300

RUN NO. 13/ 0 RN/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.900	-5.000	-.46930	-.53630	-.34460
.902	-2.830	-.48150	-.53740	-.32520
.901	-.640	-.47790	-.54030	-.31440
.898	1.550	-.47230	-.52110	-.29680
.902	3.860	-.48360	-.52860	-.29070
.899	5.980	-.47210	-.53170	-.28090
.901	8.170	-.46850	-.55810	-.27080
.901	10.320	-.48150	-.56330	-.29010
.899	12.460	-.50620	-.59230	-.30090
.900	14.670	-.50770	-.59800	-.31230
	GRADIENT	-.00090	.00139	.00615

RUN NO. 16/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.201	-2.890	-.43910	-.53660	-.38660
1.200	-.700	-.43160	-.51330	-.37140
1.202	1.590	-.42820	-.47980	-.37030
1.200	3.770	-.42540	-.46230	-.38200
1.201	6.050	-.38200	-.40120	-.39390
1.200	8.310	-.32160	-.36620	-.41260
1.202	10.530	-.31240	-.35530	-.42890
1.190	12.780	-.30390	-.35180	-.44980
1.198	14.990	-.31130	-.35930	-.46060
	GRADIENT	.00200	.01152	.00567

RUN NO. 17/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.500	-4.790	-.30090	-.37210	-.38990
1.500	-2.670	-.30840	-.38230	-.37830
1.497	-.450	-.32240	-.39490	-.36990
1.498	1.760	-.32860	-.40130	-.36280
1.500	4.900	-.32440	-.39830	-.34110
1.499	6.190	-.31330	-.36940	-.31560
1.500	8.360	-.31100	-.35070	-.31650
1.500	10.590	-.29400	-.33390	-.32510
1.499	12.740	-.26720	-.31420	-.34160
1.501	14.980	-.25420	-.30410	-.34440
	GRADIENT	-.00305	-.00325	.00514

DATE 20 AUG 74 OAS9 TABULATED SOURCE DATA

ARC 66-709 OAS9 0A11A-IN24 R3 V81+STRUT+CUM STNG (AER005) (25 APR 74)

REFERENCE DATA

SREF = .0533 58.FT. XMRP = 12.6255 IN.
LREF = .5955 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
BDCLAP = 16.300

RUN NO. 23/ 0 RN/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
2.003	-5.220	-.17300	-.21130	-.25690
2.003	-3.260	-.17770	-.21480	-.25750
2.004	-1.010	-.18710	-.22210	-.25890
2.003	1.320	-.19690	-.22720	-.26110
2.004	3.250	-.20320	-.23340	-.26330
2.003	5.300	-.20480	-.23680	-.26590
2.003	7.730	-.20390	-.23640	-.26630
2.003	9.880	-.20490	-.23840	-.26910
2.001	12.090	-.20210	-.23740	-.23750
2.001	14.250	-.19800	-.23640	-.24540
	GRADIENT	-.00396	-.00278	-.00089

DATE 29 AUG 74

OAS9 TABULATED SOURCE DATA

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ARC 66-709 OAS9 0A11A-(N24 RS V8)*STRUT+CUM STMG (AER006) (25 APR 74)

REFERENCE DATA

REF = .0535 10. FT. XMRP = 12.6255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
ORCF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVON = .000
BCFLAP = .000

RUN NO. 20/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.601	-4.620	-.43950	-.46400	-.23700
.601	-2.490	-.42590	-.44360	-.22370
.601	-.740	-.41190	-.42760	-.21250
.601	1.770	-.40430	-.41520	-.20690
.601	3.940	-.38780	-.41330	-.20290
.601	6.030	-.38300	-.41370	-.19460
.601	8.230	-.35950	-.39470	-.18370
.599	10.360	-.35430	-.40000	-.19590
.599	12.480	-.35120	-.38540	-.20810
.599	14.670	-.34090	-.37630	-.22370
	GRADIENT	.00585	.00607	.00426

RUN NO. 19/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.900	-5.130	-.46 50	-.49620	-.28700
.901	-2.920	-.4150	-.46790	-.26370
.899	-.660	-.43240	-.45490	-.26350
.901	1.490	-.43160	-.45060	-.25580
.899	3.720	-.41230	-.42620	-.24170
.903	5.890	-.40310	-.41720	-.22860
.901	8.130	-.42500	-.46190	-.21700
.902	10.290	-.40370	-.44140	-.22180
.899	12.420	-.41190	-.46130	-.25250
.901	14.640	-.42550	-.48540	-.27060
	GRADIENT	.00401	.00587	.00361

RUN NO. 22/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.198	-5.040	-.43590	-.54010	-.40670
1.202	-2.920	-.42120	-.51500	-.35880
1.202	-.680	-.41680	-.49370	-.33790
1.200	1.570	-.40950	-.46290	-.34120
1.201	3.950	-.38530	-.41510	-.35190
1.203	6.060	-.31660	-.34550	-.36520
1.201	8.320	-.28170	-.31980	-.37580
1.197	10.590	-.27000	-.31930	-.38420
1.199	12.730	-.26750	-.31880	-.40940
1.197	15.010	-.26900	-.33010	-.43380
	GRADIENT	.00566	.01449	.00572

REFERENCE DATA

SREF = .0033 30.FT.

YMRP = 12.6255 IN.

LREF = .3935 FT.

YMRP = .0000 IN.

BREF = 1.1710 FT.

ZMRP = -.3750 IN.

SCALE = .0150

PARAMETRIC DATA

BETA = .000

ELEVON = .000

BCFLAP = .000

RUN NO. 21/ 0

RN/L = 2.44

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
2.001	-5.310	-1.6720	-.20830	-.24790
2.000	-3.170	-.17569	-.21620	-.25040
1.996	-1.010	-.16476	-.22220	-.25250
2.000	1.150	-.19420	-.22780	-.25550
1.999	3.290	-.20000	-.23310	-.25690
1.999	5.460	-.20130	-.23630	-.25170
1.999	7.650	-.20100	-.23670	-.24930
1.997	9.790	-.20300	-.23980	-.23710
1.997	11.950	-.20130	-.23950	-.23680
1.997	14.110	-.19680	-.23740	-.23710
	GRADIENT	-.00384	-.00261	-.00102

DATE 29 AUG 74

OAS9 TABULATED SOURCE DATA

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ARC 66-709 OAS9 0A11A-(M24 R5 Y6)+STRUT+DUM STNG (AERO007) (25 APR 74)

REFERENCE DATA

SREF = -.6033 38.FT. XMRP = 12.6235 IN.
 LREF = -.5935 FT. YMRP = .0000 IN.
 ORF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 BOFLAP = -11.700

RUN NO. 42/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.599	-15.020	-.58630	-.29350	-.39040
.600	-9.700	-.43760	-.42600	-.31480
.601	-6.590	-.37840	-.42070	-.25940
.601	-4.480	-.38580	-.41830	-.24220
.600	-2.350	-.39720	-.43120	-.22810
.602	-.270	-.41560	-.36950	-.19980
.600	.810	-.41510	-.34610	-.19320
.601	1.820	-.40530	-.35430	-.21200
.601	3.910	-.40300	-.36250	-.25070
.595	6.000	-.36880	-.38970	-.25660
	GRADIENT	-.00227	.00713	.00064

RUN NO. 41/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.698	-15.040	-.52630	-.25560	-.41330
.701	-9.720	-.45450	-.40840	-.33320
.700	-6.560	-.38620	-.40920	-.25830
.696	-4.470	-.37840	-.42460	-.24410
.700	-2.510	-.39510	-.42620	-.22530
.700	-.250	-.39480	-.36940	-.21190
.700	.840	-.40170	-.34550	-.21110
.701	1.900	-.39740	-.35080	-.22270
.700	3.970	-.38580	-.37270	-.24670
.701	6.050	-.38120	-.43010	-.29100
	GRADIENT	-.00103	.00916	.00027

RUN NO. 40/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.800	-15.070	-.46530	-.27510	-.44500
.799	-9.670	-.46920	-.41010	-.33930
.800	-6.470	-.37020	-.39470	-.26600
.799	-4.350	-.37750	-.42730	-.25190
.800	-2.220	-.39640	-.43050	-.23340
.801	-.150	-.41060	-.37950	-.23010
.800	.980	-.37820	-.37540	-.22290
.801	2.020	-.39800	-.36350	-.22860
.801	4.150	-.37320	-.41170	-.26500
.600	6.230	-.36530	-.42390	-.29820
.802	GRADIENT	.00060	.00418	-.00063

REFERENCE DATA

SREF = -6053 SQ.FT. XMRP = 12.6255 IN.

LREF = -5935 FT. YMRP = -0.000 IN.

BREF = 1.1710 FT. ZMRP = -3.3750 IN.

SCALE = .0150

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000

BDCLAP = -11.700

RUN NO. 39/ 0		RN/L = 2.45		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	BETA	CPV1	CPV2	CPV3	
.897	-15.030	-46920	-29690	-46680	
.898	-9.630	-46970	-42140	-37370	
.900	-6.410	-36300	-39320	-29680	
.900	-4.260	-38340	-43160	-27310	
.900	-2.150	-40740	-42630	-25000	
.897	.000	-38960	-39430	-25830	
.900	1.100	-39370	-42400	-25630	
.899	2.170	-39590	-43100	-26410	
.899	4.260	-39290	-46330	-30000	
.899	6.360	-37010	-42270	-31210	
	GRADIENT	-00534	-00303	-00285	

RUN NO. 38/ 0		RN/L = 2.51		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	BETA	CPV1	CPV2	CPV3	
1.200	-15.320	-48790	-50080	-42840	
1.199	-9.700	-47110	-50270	-38260	
1.200	-6.440	-44090	-51150	-37300	
1.200	-4.300	-42830	-50610	-38390	
1.198	-2.110	-41260	-47490	-33010	
1.198	.050	-39660	-44410	-30940	
1.195	1.180	-40690	-45980	-32390	
1.202	2.140	-41480	-47630	-33600	
1.200	4.450	-43110	-49280	-35600	
1.202	6.740	-45210	-51020	-37960	
	GRADIENT	-00018	.00149	.00072	

DATE 29 AUG 74 OAS9 TABULATED SOURCE DATA

ARC 66-709 OAS9 OALIA-(N24 R3 70) >STRUT-DUM STNG (AER007) (29 APR 74)

REFERENCE DATA

SREF = .0033 36.FT. YMRP = 12.6233 IN.
LREF = .5933 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0130

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
BDFLAP = -11.700

RUN NO. 37/ 0 RN/L = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
2.001	-15.130	-21230	-22480	-29710
2.001	-14.030	-21310	-22770	-29650
2.001	-11.890	-19850	-22360	-29170
2.001	-9.530	-19290	-22480	-28550
2.003	-7.230	-18360	-22870	-27400
2.003	-6.190	-18620	-23010	-26900
2.003	-5.040	-16650	-23080	-26550
2.003	-3.930	-19220	-23050	-26180
2.003	-2.830	-19520	-22830	-26070
2.003	-1.760	-19510	-22830	-25550
2.003	-.650	-19220	-22470	-25630
2.003	.430	-19180	-22560	-25980
2.003	1.460	-19430	-22590	-25830
2.000	2.560	-20290	-22940	-26070
2.005	3.640	-20230	-22610	-26230
1.998	4.770	-20880	-23230	-26660
2.005	5.860	-20520	-23490	-26690
2.003	6.950	-20580	-24170	-27300
GRADIENT		-0.0163	-0.0006	-0.0036

ARC 68-709 OAS9 OAL1A-(N24 R3 V8)-STRUT-DUM STNG (AER000) (25 APR 74)

REFERENCE DATA

SREF = -8033 SQ.FT. XMRP = 12.6255 IN.
LREF = -5935 FT. YMRP = -0.0000 IN.
BREF = 1.1710 FT. ZMRP = -3.7500 IN.
SCALE = .0150

PARAMETRIC DATA

ALPHA = 10.500 ELEVON = .000
BCFLAP = -11.700

RUN NO. 48/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.602	-12.000	-45350	-32970	-32940
.598	-9.830	-36230	-31350	-30690
.599	-6.690	-30190	-29210	-25980
.600	-4.560	-331970	-32080	-22680
.600	-2.470	-34190	-35710	-20700
.600	-3.70	-33970	-33100	-18870
.599	.710	-34180	-32010	-18240
.600	1.700	-33280	-31240	-18080
.600	3.800	-35390	-34030	-22910
.597	5.910	-31080	-32430	-26150
	GRADIENT	-.00286	-.00021	.00116

RUN NO. 47/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.701	-12.030	-41010	-27300	-33580
.698	-9.630	-38570	-32350	-31670
.700	-6.660	-30770	-30430	-26460
.700	-4.550	-31940	-31670	-23520
.700	-2.420	-33210	-34490	-20700
.701	-.310	-34570	-34710	-19670
.700	.760	-34510	-33020	-19090
.701	1.790	-33490	-31240	-19340
.701	3.890	-34320	-31770	-23030
.699	5.980	-32730	-31420	-26370
	GRADIENT	-.00254	-.00135	.00133

RUN NO. 46/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.798	-12.060	-36680	-27160	-37760
.801	-9.870	-40430	-34290	-36220
.801	-6.640	-31840	-30850	-28210
.797	-4.490	-33020	-35420	-24640
.800	-2.320	-34560	-37940	-22320
.799	-.210	-35360	-37190	-21480
.800	.860	-35490	-36560	-21370
.800	1.880	-34820	-33760	-21470
.800	4.070	-32730	-32120	-22350
.803	6.150	-31800	-28570	-27450
	GRADIENT	-.00012	.00387	.00280

DATE 29 AUG 74

0459 TABULATED SOURCE DATA

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ARC 66-709 0459 0A11A-(M24 R5 V0)-STRUT-DUM STNG

(AER000) (25 APR 74)

REFERENCE DATA

SREF = .0033 30.FT. YMRP = 12.6255 IN.
LREF = .0033 30.FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .009
BDFLAP = -11.700

RUN NO. 43/ 0 RM/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.901	-12.200	-.41920	-.30300	-.41090
.895	-9.810	-.38370	-.28750	-.36800
.902	-6.800	-.33640	-.32040	-.28300
.901	-4.420	-.35140	-.37610	-.26700
.900	-2.240	-.35480	-.38820	-.23890
.901	-.120	-.37780	-.41030	-.24710
.902	1.000	-.36410	-.40170	-.23970
.900	2.050	-.36840	-.39180	-.23950
.900	4.190	-.34410	-.36640	-.25460
.901	6.340	-.32130	-.30950	-.26490
	GRADIENT	-.00606	.00042	.00130

RUN NO. 44/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
1.199	-12.230	-.46140	-.47130	-.42750
1.201	-9.840	-.38660	-.39530	-.41110
1.199	-6.540	-.34530	-.36190	-.38650
1.200	-4.380	-.33480	-.34410	-.38950
1.201	-2.170	-.32270	-.34760	-.39010
1.199	-.040	-.26870	-.31060	-.38710
1.199	1.030	-.26290	-.30700	-.39030
1.198	2.110	-.25860	-.30160	-.39560
1.202	4.250	-.30410	-.32860	-.38890
1.201	6.300	-.33710	-.35330	-.40720
	GRADIENT	-.00836	.00387	-.00029

RUN NO. 43/ 0 RM/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
1.998	-12.030	-.25040	-.26530	-.26110
2.007	-9.580	-.25410	-.26680	-.28000
2.005	-6.230	-.23500	-.25160	-.26300
2.001	-4.080	-.22210	-.24580	-.24950
1.999	-1.900	-.21130	-.23990	-.23980
1.999	.280	-.20460	-.24050	-.23700
2.001	1.390	-.19840	-.24120	-.23140
2.002	2.430	-.19960	-.24460	-.23460
2.004	4.600	-.21170	-.25030	-.24140
2.006	6.810	-.22870	-.25890	-.26150
	GRADIENT	-.00169	-.00056	-.00119

DATE 20 AUG 74

0459 TABULATED SOURCE DATA

ARC 66-708 0459 0411A-(M24 RS V8)*STRUT

(SER009) (25 APR 74)

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
BCFLAP = -11.700

REFERENCE DATA

3REF = .0033 SQ.FT. YMRP = 12.8255 IN.
LREF = .9935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0130

RUN NO. 84/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.600	-4.040	-.39880	-.36110	-.23660
.590	-1.950	-.37730	-.35790	-.22700
.580	.160	-.36110	-.34860	-.20920
.601	2.510	-.37410	-.36550	-.20800
.602	4.450	-.35640	-.36730	-.20810
.601	6.480	-.34260	-.36600	-.20130
.602	8.700	-.33370	-.36820	-.20450
.601	10.910	-.31800	-.35010	-.21040
.599	13.020	-.31410	-.33610	-.22830
.600	15.220	-.30360	-.32890	-.24720
	GRADIENT	.00413	-.00095	.00337

RUN NO. 83/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.800	-4.330	-.35430	-.32850	-.26900
.800	-2.140	-.35700	-.31850	-.23960
.801	.060	-.36480	-.33990	-.23460
.803	.370	-.36670	-.34020	-.22940
.801	2.590	-.34650	-.33590	-.21060
.800	4.720	-.35790	-.37640	-.22570
.803	6.980	-.34800	-.38240	-.21840
.801	9.180	-.34180	-.37590	-.22220
.800	11.340	-.34080	-.37290	-.23970
.800	13.570	-.33600	-.35910	-.26390
.799	15.810	-.34040	-.35800	-.29850
	GRADIENT	.00016	-.00493	.00510

RUN NO. 82/ 0 RM/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.897	-4.510	-.30860	-.29470	-.26200
.901	-2.380	-.33410	-.29790	-.25320
.900	-.190	-.34410	-.31260	-.24720
.901	2.020	-.34470	-.30680	-.22860
.900	4.230	-.33630	-.31820	-.23290
.900	6.460	-.34960	-.36360	-.24320
.900	10.950	-.38360	-.42770	-.26820
.898	13.160	-.38940	-.43430	-.29620
.898	15.470	-.41020	-.44120	-.31870
	GRADIENT	-.00299	-.00255	.00378

REFERENCE DATA
 XREF = .0033 50.FT. XMRP = 12.8233 IN.
 YREF = .5933 FT. YMRP = .0000 IN.
 ZREF = 1.1710 FT. ZMRP = -.3730 IN.
 SCALE = .0190

PARAMETRIC DATA
 BETA = .000 ELEVON = .000
 BDFLAP = -11.700

RUN NO. 81/ 0 RM/L = 2.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.202	-4.670	-.44760	-.34760	-.38900
1.200	-2.020	-.42970	-.31740	-.29390
1.202	.010	-.42140	-.48670	-.33640
1.204	.300	-.42610	-.48980	-.37190
1.199	2.550	-.40390	-.44510	-.33640
1.198	4.780	-.34090	-.36720	-.37690
1.200	7.060	-.26770	-.32140	-.38420
1.202	9.390	-.26330	-.31480	-.39930
1.199	11.550	-.25350	-.30130	-.41250
1.200	13.850	-.25660	-.30650	-.44770
1.199	16.070	-.23550	-.28750	-.44700
	GRADIENT	.01011	.01834	-.00137

RUN NO. 80/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.502	-4.030	-.30140	-.37100	-.34600
1.500	-2.000	-.31200	-.36280	-.36360
1.499	.110	-.32030	-.39270	-.33310
1.500	.500	-.31880	-.39240	-.34480
1.500	2.740	-.30950	-.38070	-.31550
1.499	4.930	-.30310	-.35510	-.31030
1.499	7.140	-.24320	-.28730	-.31660
1.500	9.410	-.22710	-.27080	-.32670
1.500	11.650	-.22570	-.27210	-.34550
1.499	13.860	-.21490	-.26710	-.35570
1.499	16.110	-.21020	-.26600	-.35970
	GRADIENT	-.00015	.00137	.00726

DATE 20 AUG 74

0439 TABULATED SOURCE DATA

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ARC 66-709 0439 0411A-(M24 R5 V8)*STRUT

(A66098) (25 APR 74)

REFERENCE DATA

SRFP = .0033 SQ.FT. XMRP = 12.6233 IN.
LRFP = .0033 FT. YMRP = .0000 IN.
BRFP = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
BCFLAP = -11.700

RUN NO. 79/0 RM/L = 2.44 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.993	-4.750	-1.6620	-2.0870	-2.3845
1.991	-2.580	-1.7570	-2.1710	-2.4320
1.996	-.450	-1.8120	-2.2180	-2.4690
1.998	-.030	-1.8890	-2.2930	-2.4770
1.999	1.740	-1.9030	-2.2640	-2.4290
1.999	4.210	-1.9890	-2.3290	-2.4690
1.999	6.420	-2.0510	-2.3800	-2.5130
1.998	8.650	-2.0540	-2.3950	-2.4820
1.996	10.830	-2.0680	-2.4290	-2.5030
1.996	12.990	-2.0520	-2.4270	-2.4965
1.996	13.190	-2.0360	-2.4410	-2.5306
	GRADIENT	-0.0364	-0.0264	-0.0079

0459 TABULATED SOURCE DATA

ARC 66-709 0459 0411A-124 23 08108TRUT

(ACR010) (23 APR 74)

REFERENCE DATA

SEEF = .0033 20.FT. INEP = 12.6233 IN.
LEEF = .5033 FT. YNEP = .0000 IN.
SEEF = 1.1710 FT. ZNEP = -.3730 IN.
SCALE = .0130

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
BCFLAP = -11.70.

RUN NO. 66/ 0 RM/L = 2.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.600	-15.010	-.60560	-.44630	-.39210
.601	-9.760	-.39740	-.43930	-.36410
.600	-6.590	-.35240	-.42890	-.34410
.601	-4.490	-.34020	-.40270	-.28810
.602	-2.420	-.35870	-.38990	-.26960
.601	-.300	-.37040	-.36370	-.21710
.601	.750	-.38250	-.36700	-.22050
.600	1.790	-.36870	-.37830	-.23770
.596	3.660	-.35940	-.40600	-.26110
.600	5.930	-.35440	-.40780	-.30820
	GRADIENT	-.00273	.00066	.00268

RUN NO. 67/ 0 RM/L = 2.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.796	-15.000	-.48160	-.36340	-.42960
.799	-9.690	-.44620	-.47860	-.38800
.799	-6.520	-.35540	-.42340	-.35500
.801	-4.390	-.35140	-.42230	-.30920
.802	-2.260	-.35350	-.39960	-.28180
.796	-.140	-.37600	-.34630	-.23500
.800	.930	-.35720	-.35640	-.24840
.801	1.980	-.34800	-.38300	-.26130
.800	4.110	-.36640	-.41010	-.30010
.801	6.180	-.34280	-.40430	-.33660
	GRADIENT	-.00113	.00260	.00238

RUN NO. 66/ 0 RM/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.902	-15.070	-.49290	-.36100	-.43120
.898	-9.680	-.46390	-.48920	-.40230
.909	-6.490	-.36970	-.41770	-.36830
.900	-4.310	-.37490	-.43740	-.33390
.902	-2.170	-.35950	-.39860	-.28460
.901	-.030	-.34000	-.30540	-.23190
.902	1.050	-.34390	-.34600	-.27180
.900	2.080	-.36760	-.39300	-.28940
.902	4.210	-.37870	-.43740	-.33270
.902	6.300	-.37260	-.42400	-.37360
	GRADIENT	-.00033	.00123	.00033

ARC 66-799 OASD OM11A-(M24 23 08)+STRUT

(AER010) (23 APR 74)

REFERENCE DATA

SREF = .0033 50. FT. ZMRP = 12.0233 IM.
LREF = .0033 50. FT. ZMRP = .0000 IM.
SREF = 1.1710 FT. ZMRP = -.3750 IM.
SCALE = .0150

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
BCFLAP = -11.700

RUN NO. 63/ 0 RM/L = 2.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
1.199	-15.310	-.42290	-.43560	-.39780
1.202	-9.720	-.41440	-.45290	-.35570
1.199	-6.460	-.44830	-.52810	-.34870
1.200	-4.300	-.43290	-.52410	-.34360
1.200	-2.120	-.41240	-.49550	-.32190
1.200	.010	-.38980	-.45070	-.32080
1.199	1.110	-.40000	-.47620	-.32080
1.200	2.170	-.41550	-.50470	-.32330
1.200	4.350	-.44020	-.52510	-.34910
1.199	6.470	-.46440	-.53490	-.34750
	GRADIENT	-.00047	-.00057	-.00044

RUN NO. 64/ 0 RM/L = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
1.499	-15.990	-.32700	-.36450	-.36300
1.499	-10.000	-.29770	-.36400	-.36040
1.499	-6.680	-.31080	-.40230	-.35890
1.500	-4.520	-.31770	-.40070	-.34880
1.500	-2.340	-.32760	-.39970	-.34470
1.500	-.210	-.32550	-.39200	-.34270
1.500	.920	-.32660	-.39540	-.34640
1.500	2.010	-.33930	-.39870	-.35190
1.500	4.180	-.33490	-.40190	-.34340
1.500	6.340	-.33370	-.40860	-.36350
	GRADIENT	-.00202	-.00051	.00016

RUN NO. 65/ 0 RM/L = 2.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
1.9.4	-15.150	-.21550	-.22580	-.29970
1.997	-9.530	-.18740	-.22090	-.28170
1.997	-6.240	-.18140	-.22640	-.28360
1.997	-4.000	-.18580	-.22520	-.28290
1.997	-1.830	-.18730	-.22210	-.24140
1.997	.340	-.18300	-.22070	-.24240
1.997	1.370	-.16760	-.22310	-.24260
2.002	2.530	-.19080	-.22120	-.24290
1.997	4.730	-.19800	-.22370	-.23450
1.994	6.850	-.20340	-.24110	-.27020
	GRADIENT	-.00123	.00054	-.00014

REFERENCE DATA

SREF = .6033 50.FT.

LMRP = 12.6255 IN.

LREF = .5933 FT.

YMRP = .0000 IN.

BREF = 1.1710 FT.

ZMRP = -.3750 IN.

SCALE = .0150

PARAMETRIC DATA

ALPHA = 10.000

ELEVOM = .000

BDFLAP = -11.700

RUN NO. 62/ 0

RN/L = 2.54

GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.600	-4.610	-.30050	-.33530	-.25240
.599	-2.570	-.31520	-.36630	-.22440
.601	-.380	-.31820	-.36300	-.20690
.601	.600	-.32360	-.36330	-.20760
.601	1.610	-.31590	-.35700	-.21390
.601	3.620	-.31930	-.36350	-.25200
.600	5.630	-.29350	-.32370	-.31900
.599	7.900	-.30980	-.32760	-.37450
.600	11.130	-.45440	-.43310	-.42350
.602	16.320	-.44340	-.46630	-.57490
GRADIENT		-.00197	-.00231	.00091

RUN NO. 61/ 0

RN/L = 2.54

GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.701	-4.530	-.30970	-.34230	-.46800
.701	-2.390	-.31390	-.35350	-.22380
.699	-.340	-.32400	-.36530	-.21820
.700	.760	-.32610	-.35900	-.21420
.700	1.820	-.30690	-.35020	-.21610
.699	3.920	-.31250	-.35390	-.25690
.699	6.040	-.30350	-.31570	-.30190
.700	8.130	-.31110	-.33860	-.38120
.699	11.340	-.47510	-.38910	-.40510
.701	16.600	-.44750	-.47800	-.59180
GRADIENT		-.00026	-.00103	.00190

RUN NO. 60/ 0

RN/L = 2.55

GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.800	-4.490	-.31610	-.34890	-.25820
.800	-2.360	-.33050	-.37770	-.24280
.802	-.250	-.31460	-.35130	-.21300
.800	.850	-.31800	-.35340	-.21740
.798	1.960	-.32480	-.35850	-.22140
.798	4.090	-.30990	-.35040	-.24770
.800	6.160	-.76590	-.29640	-.26750
.799	8.590	-.30160	-.27790	-.29770
.801	11.560	-.42160	-.33560	-.39880
.803	16.870	-.40310	-.43490	-.55600
GRADIENT		.00084	.00061	.00227

ARC 66-708 OAS9 OM11A-(IN24 R3 V8)*STRUT

(AERD11) (29 APR 74)

REFERENCE DATA

SREF = .6933 50.FT. XMRP = 12.6235 IN.
LREF = .5935 50.FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
BDFLAP = -11.700

RUN NO. 59/ 0 RM/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.900	-4.410	-.34310	-.39840	-.29400
.901	-2.280	-.37610	-.42400	-.26690
.894	-.120	-.35850	-.40950	-.26500
.900	1.020	-.26710	-.40790	-.24770
.899	2.100	-.36370	-.40410	-.25800
.900	4.250	-.33960	-.39050	-.27800
.902	6.400	-.31470	-.31070	-.27120
.900	8.540	-.30870	-.26540	-.29290
.900	11.760	-.34780	-.26960	-.33330
.899	17.170	-.39810	-.38280	-.41340
	GRADIENT	.00086	.00157	.00230

RUN NO. 58/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
1.203	-4.370	-.33740	-.34540	-.37240
1.202	-2.210	-.28760	-.32940	-.37820
1.202	-.010	-.25020	-.29430	-.39110
1.201	1.030	-.26870	-.31940	-.39280
1.201	2.170	-.30030	-.34920	-.38680
1.202	4.360	-.34480	-.36090	-.38170
1.201	6.470	-.35400	-.37170	-.38820
1.201	8.710	-.36560	-.38130	-.38270
1.203	9.760	-.37090	-.38470	-.37760
1.201	11.920	-.40460	-.40200	-.38810
1.199	17.500	-.42510	-.37050	-.37440
	GRADIENT	-.00060	-.00199	-.00142

RUN NO. 57/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
1.501	-4.590	-.28560	-.33380	-.34380
1.498	-2.410	-.27450	-.33360	-.35330
1.500	-.240	-.23760	-.29970	-.34410
1.501	.910	-.23570	-.29910	-.33760
1.502	1.990	-.23820	-.30500	-.33050
1.502	4.200	-.28340	-.33990	-.32190
1.502	6.390	-.28600	-.33580	-.32720
1.502	8.630	-.31120	-.33160	-.34030
1.502	11.900	-.32770	-.37120	-.33440
1.503	17.610	-.30180	-.30420	-.35150
	GRADIENT	.00232	.00115	.00299

DATE 29 AUG 74 OAS9 TABULATED SOURCE DATA

(AER011) (25 APR 74)

ARC 68-709 OAS9 0A11A-IN24 RS V8)+STRUT

PARAMETRIC DATA

ALPHA = 19.090 ELEVON = .000
80FLAP = -11.700

REFERENCE DATA

SREF = .6053 50.FT. XMRP = 12.6255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 5.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 56/ D RN/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
2.000	-4.790	-.21100	-.25340	-.24890
2.000	-1.990	-.20330	-.24560	-.24340
2.000	.090	-.19540	-.24510	-.24340
2.000	1.270	-.18640	-.24670	-.23990
1.999	2.290	-.18190	-.24810	-.24200
2.000	4.510	-.18650	-.25150	-.24970
2.000	6.690	-.21370	-.26050	-.26090
2.000	9.010	-.23930	-.26920	-.26930
2.000	11.270	-.24040	-.27320	-.26660
2.000	12.410	-.24140	-.26770	-.26280
2.003	18.020	-.23740	-.25560	-.27970
	GRADIENT	.00355	.00009	.00010

ARC 66-709 OAS9 0A11A-(R5 V0)+STRUT

(AERD12) (29 APR 74)

REFERENCE DATA

SREF = .6935 SQ.FT.
LREF = .3935 FT.
BREF = 1710 FT.
SCALE = .0150XMRP = 12.6255 IN.
YMRP = .0000 IN.
ZMRP = -.3750 IN.

PARAMETRIC DATA

BETA = .000 ELEVON = .000
BCFLAP = -11.700

RUN NO. 94/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.601	-4.140	-3.4450	-3.2300	-3.3670
.601	-2.080	-3.3660	-3.2800	-3.2970
.602	.160	-3.8710	-3.9060	-3.7610
.600	2.240	-3.1720	-3.3340	-3.3070
.600	4.360	-3.1670	-3.4390	-3.30140
.601	6.530	-3.0620	-3.4850	-3.29240
.601	8.660	-3.0200	-3.3870	-3.26870
.601	10.870	-2.8130	-3.3270	-3.29410
.602	12.960	-2.7010	-3.1670	-3.31020
.601	15.160	-2.6790	-2.8840	-3.31820
	GRADIENT	.00345	-.00237	-.00461

RUN NO. 93/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.700	-4.300	-3.2030	-2.2280	-3.3850
.701	-2.160	-3.2430	-3.0310	-3.2110
.700	.010	-3.2660	-3.1280	-3.0630
.699	2.200	-3.2540	-3.1880	-2.9930
.700	4.340	-3.1590	-3.3630	-3.0290
.701	6.510	-3.1470	-3.4760	-2.8720
.701	8.710	-3.0360	-3.4890	-2.8730
.701	10.880	-2.9560	-3.4550	-3.0090
.702	13.050	-2.8580	-3.2360	-3.1330
.700	15.250	-2.8560	-3.1160	-3.3450
	GRADIENT	.00036	-.00290	-.00430

RUN NO. 92/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.749	-4.400	-3.2060	-2.9670	-3.3780
.752	-2.200	-3.2610	-3.0310	-3.2800
.749	-.030	-3.3100	-3.1500	-3.1290
.751	2.170	-3.3230	-3.3790	-3.1780
.751	4.290	-3.1110	-3.3020	-2.9560
.750	6.500	-3.2220	-3.5080	-2.8860
.752	8.770	-3.0960	-3.5420	-2.9510
.751	10.910	-2.9860	-3.4910	-3.0550
.750	13.090	-2.9480	-3.2980	-3.1775
.750	15.320	-2.9200	-3.0970	-3.4670
	GRADIENT	.00037	-.00469	-.00432



REFERENCE DATA

BREF = .6033 38.FT. YMRP = 12.6255 IN.

LREF = .5935 FT. YMRP = .0000 IN.

BREF = 1.1710 FT. ZMRP = -.3750 IN.

SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000

BCFLAP = -11.700

RUN NO. 91/ 0 RN/L = 2.54 GRADIENT INTERVAL = -3.00/ 3.00				
MACH	ALPHA	CPV1	CPV2	CPV3
.800	-4.530	-.30910	-.29530	-.33370
.801	-2.290	-.31690	-.29990	-.32850
.800	-.120	-.32850	-.33900	-.33870
.800	2.060	-.31600	-.33160	-.30960
.798	4.270	-.33040	-.35040	-.30150
.801	6.490	-.32850	-.37240	-.29940
.801	8.680	-.31460	-.36690	-.29960
.802	10.860	-.31790	-.37030	-.32160
.801	13.030	-.29210	-.32250	-.31370
.801	15.300	-.31540	-.33370	-.36240
GRADIENT		-.00199	-.00646	.00562

RUN NO. 90/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00				
MACH	ALPHA	CPV1	CPV2	CPV3
.850	-4.600	-.31600	-.31790	-.38240
.850	-2.370	-.30670	-.30240	-.34840
.851	-.210	-.32860	-.32660	-.33670
.851	2.020	-.34230	-.36410	-.32350
.851	4.230	-.34630	-.38440	-.31810
.851	6.390	-.34640	-.38330	-.30760
.849	8.650	-.34130	-.38830	-.31130
.849	10.850	-.32770	-.37100	-.31530
.849	13.010	-.32710	-.36510	-.34690
.849	15.260	-.33000	-.35640	-.36960
GRADIENT		-.00418	-.00946	.00696

RUN NO. 89/ 0 RN/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00				
MACH	ALPHA	CPV1	CPV2	CPV3
.901	-4.690	-.31460	-.33150	-.39660
.900	-2.440	-.33000	-.34210	-.37560
.902	-.210	-.32050	-.33150	-.34980
.902	2.040	-.30860	-.32480	-.33360
.900	4.220	-.31580	-.33210	-.32990
.901	6.430	-.35120	-.36680	-.32290
.900	8.630	-.36540	-.41810	-.31500
.900	10.880	-.35990	-.43310	-.35260
.900	13.010	-.36650	-.40850	-.34600
.901	15.300	-.39250	-.42480	-.37640
GRADIENT		.00085	.00072	.00787

ARC 66-799 0459 0411A-(R5 V8)+STRUT

(AER012) (23 APR 74)

REFERENCE DATA

SREF = .6033 SQ.FT. XMRP = 12.8255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVON = .000
BDFLAP = -11.700

RUN NO. 88/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.932	-4.670	-4.8640	-5.4840	-4.3220
.948	-2.440	-3.7070	-4.0460	-3.0230
.951	-.240	-4.5870	-4.6430	-4.0540
.950	2.080	-3.9980	-3.9010	-3.4500
.948	4.370	-4.1310	-3.9320	-3.3100
.951	6.560	-4.3700	-4.2600	-3.1480
.950	8.700	-4.4740	-4.4060	-3.1590
.951	10.930	-4.4640	-4.4790	-3.4220
.951	13.130	-4.6040	-4.7040	-3.9700
.952	15.390	-4.5750	-4.4640	-4.2760
	GRADIENT	.00521	.01437	.01206

RUN NO. 87/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.201	-4.600	-4.3380	-6.2660	-4.3470
1.202	-2.350	-4.1730	-5.7190	-4.3290
1.202	-.130	-4.0750	-5.3330	-4.3360
1.202	2.070	-3.9540	-4.5540	-4.2570
1.202	4.320	-3.5670	-4.1340	-4.2190
1.202	6.670	-2.7980	-3.3710	-4.1040
1.198	8.870	-2.4970	-3.0570	-4.1140
1.198	11.080	-2.5350	-3.1010	-4.2580
1.200	13.360	-2.5650	-3.0840	-4.4310
1.201	15.570	-2.4890	-3.0410	-4.4560
	GRADIENT	.00675	.02305	.00170

RUN NO. 86/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.499	-4.350	-2.2910	-3.6710	-3.1220
1.500	-2.050	-2.2990	-3.9640	-3.2330
1.501	.110	-3.1150	-4.0430	-3.3460
1.499	.500	-3.3120	-4.0650	-3.3740
1.499	2.690	-3.1610	-4.0980	-3.5130
1.498	4.930	-2.2940	-3.9750	-3.6270
1.498	7.220	-2.2930	-3.7830	-3.7000
1.498	9.400	-2.2610	-3.1960	-3.7370
1.497	11.600	-2.3940	-2.8850	-3.7730
1.496	13.970	-2.2290	-2.6950	-3.6930
1.498	16.060	-2.2160	-2.6770	-3.6950
	GRADIENT	-.00142	-.00149	-.00354

DATE 29 AUG 74

0459 TABULATED SOURCE DATA

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ARC 68-709 0459 0411A-(RS V8)*STRUT

(AER012) (23 APR 74)

REFERENCE DATA

SREF = .6033 50.FT. XMRP = 12.6235 IN.
LREF = .5835 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .900 ELEVON = .000
BDFLAP = -11.700

RUN NO. 65/ 0 RM/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.997	-4.840	-.15190	-.20830	-.19250
2.005	-2.700	-.15850	-.21240	-.19790
2.002	-.550	-.16340	-.21780	-.20560
1.999	1.690	-.17750	-.22580	-.21900
1.999	3.890	-.18660	-.23170	-.23680
1.996	6.040	-.19650	-.23730	-.24800
1.996	8.170	-.20140	-.23870	-.24700
1.999	10.360	-.20430	-.24020	-.24560
1.999	12.610	-.20460	-.24210	-.24560
1.999	14.880	-.20650	-.24320	-.25260
	GRADIENT	-.00414	-.00276	-.00593

REFERENCE DATA

SREF = .6033 50.FT. YMRP = 12.6255 IN.
LREF = .5935 50.FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.096
BCFLAP = -11.700

RUN NO. 115/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.600	-3.910	-.35510	-.35960	-.42140
.601	-1.790	-.34540	-.33450	-.36080
.601	.370	-.34810	-.35150	-.37580
.601	2.460	-.33750	-.37090	-.37530
.601	4.590	-.34430	-.37080	-.35210
.600	6.780	-.35240	-.38140	-.35280
.599	8.940	-.33800	-.37250	-.35610
.600	11.190	-.32760	-.36010	-.35210
.601	13.570	-.32440	-.35960	-.36920
.601	15.590	-.33150	-.35150	-.38770
	GRADIENT	.00139	-.00276	.00678

RUN NO. 114/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.698	-4.040	-.34370	-.32960	-.41560
.698	-1.910	-.31510	-.31590	-.38620
.699	.290	-.33110	-.30880	-.36110
.700	2.410	-.33550	-.33370	-.36340
.701	4.620	-.33640	-.36940	-.35870
.699	6.800	-.35640	-.38350	-.35640
.701	9.050	-.34960	-.36570	-.35650
.700	11.190	-.35900	-.39570	-.38430
.700	13.420	-.35500	-.37790	-.37410
.697	15.610	-.36790	-.38190	-.41040
	GRADIENT	-.00028	-.00451	.00631

RUN NO. 113/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.600	-4.250	-.30420	-.30550	-.42320
.601	-2.020	-.29560	-.27400	-.36820
.601	.150	-.30430	-.29650	-.36350
.601	2.370	-.31940	-.32430	-.36650
.600	4.370	-.32290	-.37560	-.36530
.601	6.770	-.36490	-.41130	-.36860
.600	8.990	-.37870	-.42320	-.36690
.600	11.090	-.37600	-.41730	-.37930
.601	13.280	-.38460	-.42230	-.40580
.600	15.540	-.39890	-.42690	-.43390
	GRADIENT	-.00550	-.00842	.00534

DATE 29 AUG 74

OAS9 TABULATED SOURCE DATA

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ARC 86-709 OAS9 OAL11A-(RS V8)+STRTUT

(AERO13) (23 APR 74)

REFERENCE DATA

SREF = .6053 36-FT. XMRP = 12.6253 IN.
LREF = .9933 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = 13.086
BDFLAP = -11.700

RUN NO. 112/ 0 RN/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.900	-4.430	-.32830	-.36990	-.46930
.903	-2.210	-.29930	-.31690	-.42920
.902	.000	-.29190	-.30140	-.38500
.901	2.280	-.29110	-.28510	-.34500
.902	4.470	-.30700	-.30450	-.35020
.901	6.720	-.40690	-.42840	-.38050
.899	8.920	-.44330	-.51260	-.40310
.902	11.100	-.46800	-.52680	-.41520
.901	13.340	-.48110	-.54750	-.43340
.900	15.530	-.49000	-.55860	-.45980
	GRADIENT	.00210	.00730	.01447

RUN NO. 111/ 0 RN/L = 2.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.196	-4.550	-.46270	-.61500	-.47360
1.202	-2.310	-.43240	-.60210	-.47690
1.202	-.110	-.44430	-.58300	-.47600
1.199	2.290	-.43640	-.55390	-.46190
1.196	4.520	-.41860	-.49340	-.47170
1.202	6.730	-.39650	-.42240	-.47530
1.199	9.090	-.31570	-.36970	-.46100
1.200	11.310	-.30920	-.36060	-.47850
1.200	13.580	-.31260	-.36360	-.49620
1.199	15.850	-.29350	-.34650	-.46610
	GRADIENT	.00449	.01283	.00093

RUN NO. 110/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.500	-4.330	-.29820	-.36800	-.32640
1.500	-2.140	-.31050	-.39850	-.33840
1.500	.110	-.31970	-.40750	-.34730
1.496	2.270	-.32960	-.41630	-.36020
1.499	4.580	-.32040	-.41370	-.37490
1.499	6.710	-.32010	-.41700	-.36430
1.502	8.970	-.32850	-.42220	-.39380
1.501	11.230	-.33200	-.40820	-.40170
1.500	13.460	-.31150	-.37840	-.40530
1.501	15.750	-.23690	-.28830	-.39620
	GRADIENT	-.00284	-.00310	-.00535

CASE 20 AUG 74

0439 TABULATED SOURCE DATA

(AERU13) (25 APR 74

ARC 66-709 0439 0411A-(R5 V81)*STRTU

PARAMETRIC DATA

BETA = .000 ELEVON = 15.00
BCFLAP = -11.700

REFERENCE DATA

SREF = .0033 30.FT. YMRP = 12.6255 IN.
LREF = .3939 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 109/ 0 RN/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
2.001	-4.860	-1.1247	-.20980	-.19460
2.001	-2.650	-.16010	-.21460	-.20060
2.001	-.540	-.16790	-.22030	-.20680
2.001	1.600	-.17650	-.22550	-.21960
2.001	3.910	-.18520	-.23090	-.23480
1.998	6.010	-.19380	-.23520	-.24460
2.001	8.140	-.19910	-.23980	-.24460
2.003	10.380	-.20370	-.24030	-.24490
2.001	12.480	-.20280	-.24090	-.24330
2.001	14.670	-.20450	-.24340	-.25020
GRADIENT		-.00385	-.00244	-.00458

ARC 68-709 OAS9 OM11A-(85 V8)-STRUT

(AER014) (25 APR 74)

REFERENCE DATA

REF = .6033 36.FT. XMRP = 12.6255 IN.
LREF = .5933 37.FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0130

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
BOPLAP = 16.300

RUN NO. 101/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.602	-3.970	-.48920	-.57670	-.33690
.600	-1.880	-.47390	-.56240	-.32290
.601	.270	-.46340	-.54670	-.29330
.599	2.360	-.45200	-.53720	-.30400
.598	4.480	-.42860	-.57830	-.31310
.599	6.630	-.41280	-.57270	-.33220
.600	8.720	-.38730	-.55150	-.32730
.599	10.680	-.36330	-.53260	-.32730
.600	13.040	-.37940	-.50340	-.31710
.599	15.200	-.37510	-.47890	-.34240
	GRADIENT	.00677	.00010	.00315

RUN NO. 100/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.698	-3.710	-.49010	-.57130	-.34050
.701	-1.630	-.48830	-.55670	-.32930
.702	.930	-.47960	-.57220	-.32970
.701	2.690	-.46580	-.56430	-.30210
.698	4.900	-.44210	-.54380	-.31190
.698	7.030	-.43400	-.58400	-.32890
.699	9.240	-.41590	-.56870	-.32720
.699	11.40	-.41540	-.55120	-.32280
.700	13.570	-.40910	-.52750	-.33810
.699	15.760	-.40320	-.48680	-.36440
	GRADIENT	.00552	-.00144	.00391

RUN NO. 99/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.801	-3.900	-.51540	-.58110	-.35340
.801	-1.750	-.56220	-.64450	-.46280
.801	.440	-.50820	-.58360	-.32360
.801	2.660	-.51470	-.63720	-.33080
.801	4.850	-.49680	-.63760	-.32940
.801	7.030	-.47090	-.60930	-.32390
.798	9.190	-.46260	-.59890	-.33150
.798	11.410	-.47100	-.58510	-.33500
.798	13.620	-.46320	-.56910	-.36790
.799	15.790	-.45880	-.54150	-.39880
	GRADIENT	.00368	-.00482	.00567

(AERD14) (25 APR 74)

ARC 66-709 0439 0431A-(R5 V8)+STRUT

PARAMETRIC DATA

BETA = .000 ELEVON = .000
B-FLAP = 16.300

REFERENCE DATA

SRF = .0033 50.FT. XMRP = 12.8255 IN.
LREF = .0033 FT. YMRP = .0000 IN.
ORF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 96/ 0 RM/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.903	-4.500	-.51960	-.61100	-.41280
.900	-2.290	-.53300	-.61370	-.39640
.901	.040	-.52650	-.60610	-.37040
.902	.370	-.53680	-.62960	-.38950
.898	2.470	-.52350	-.62370	-.35930
.899	4.760	-.51640	-.63350	-.34890
.900	6.950	-.53160	-.66700	-.33240
.898	9.110	-.50310	-.64790	-.33900
.900	11.320	-.53290	-.66720	-.36460
.897	13.550	-.51700	-.61820	-.37090
.899	15.610	-.53520	-.63790	-.42330
GRADIENT		-.00062	-.00409	.00697

RUN NO. 97/ 0 RM/L = 2.51 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.202	-4.630	-.44360	-.61990	-.43180
1.200	-2.420	-.42930	-.59880	-.42330
1.200	-.170	-.42810	-.6520	-.42690
1.202	2.110	-.42660	-.54000	-.42260
1.201	4.340	-.41500	-.48840	-.42660
1.200	6.570	-.39850	-.43660	-.43080
1.199	8.860	-.39100	-.41690	-.43000
1.199	11.090	-.38420	-.40290	-.44470
1.203	13.330	-.35750	-.38640	-.46060
1.198	15.600	-.33460	-.38380	-.46290
GRADIENT		-.00266	-.01432	.00056

RUN NO. 98/ 0 RM/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.500	-4.350	-.29260	-.38550	-.31440
1.501	-2.190	-.30230	-.39640	-.32420
1.500	.050	-.31230	-.40620	-.33600
1.500	2.230	-.30760	-.40280	-.34670
1.499	4.460	-.30770	-.40430	-.36190
1.500	6.710	-.30310	-.39500	-.37070
1.498	8.900	-.29750	-.37970	-.37580
1.497	11.120	-.30190	-.37100	-.37670
1.502	13.330	-.30440	-.35010	-.37620
1.498	15.570	-.26460	-.31470	-.36740
GRADIENT		-.00161	-.00199	-.00333

DATE 20 AUG 74

QASO TABULATED SOURCE DATA

ARC 66-709 QASO QAL1A-(RS V6)*STRUT

(AERO14) (23 APR 74)

REFERENCE DATA

REF = .6033 34.FT. XMRP = 12.6255 IN.
 LREF = .5933 FT. YMRP = .0.00 IN.
 QREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 BCFLAP = 16.300

RUN NO. 93/ 0 RN/L = 2.47 GRADIENT INTERVAL = -9.50/ 9.00

MACH	ALPHA	CPV1	CPV2	CPV3
2.000	-4.780	-1.15100	-2.0770	-1.19250
2.003	-2.660	-1.15950	-2.1460	-1.19040
2.006	-1.540	-1.16700	-2.1930	-1.20500
2.009	1.820	-1.17500	-2.2300	-1.21670
1.997	3.640	-1.18420	-2.25010	-1.23240
1.997	5.970	-1.19350	-2.26430	-1.24340
1.997	8.150	-1.20060	-2.2740	-1.24990
2.003	10.330	-1.20370	-2.2950	-1.24500
1.997	12.510	-1.20320	-2.2980	-1.24370
1.997	14.740	-1.20280	-2.4020	-1.25050
	GRADIENT	-1.00389	-1.00251	-1.00456

REFERENCE DATA

3REF = .0033 36.FT. 1REF = 12.6233 IN.

4REF = .3933 37.FT. 2REF = .0000 IN.

5REF = 1.1710 38.FT. 3REF = -.3730 IN.

SCALE = .0157

PARAMETRIC DATA

BETA = .000 ELEVOM = .000

COFLAP = .000

RUN NO. 106/ 5 RM/L = 2.52 GRADIENT INTERVAL = -3.00/ 3.00			
MACH	ALPHA	CPV1	CPV2
.599	-4.170	-.41000	-.46620
.599	-2.050	-.40890	-.31470
.601	.100	-.39910	-.44090
.599	2.240	-.39040	-.44010
.600	4.400	-.38570	-.44310
.600	6.620	-.37470	-.43020
.600	8.890	-.35780	-.42240
.605	10.840	-.34230	-.41870
.600	13.000	-.33070	-.39660
.600	15.170	-.31670	-.37210
GRADIENT		.00313	.00245

RUN NO. 107/ 5 RM/L = 2.53 GRADIENT INTERVAL = -3.00/ 3.00			
MACH	ALPHA	CPV1	CPV2
.700	-4.280	-.41880	-.47400
.700	-2.130	-.40970	-.41060
.702	.080	-.41530	-.46410
.701	2.170	-.39490	-.43570
.700	4.360	-.40090	-.45570
.700	6.510	-.38430	-.43930
.699	8.730	-.38180	-.43210
.702	10.920	-.35920	-.43480
.699	13.050	-.35030	-.44460
.699	15.260	-.34310	-.46010
GRADIENT		.00233	.00233

RUN NO. 106/ 6 RM/L = 2.53 GRADIENT INTERVAL = -3.00/ 3.00			
MACH	ALPHA	CPV1	CPV2
.799	-4.470	-.43640	-.47850
.801	-2.260	-.42960	-.46910
.805	-.120	-.41620	-.43510
.801	2.140	-.43930	-.46780
.800	4.290	-.41820	-.46370
.799	6.470	-.42840	-.51020
.799	8.680	-.47000	-.49010
.798	10.860	-.49990	-.47310
.801	13.030	-.37830	-.46280
.799	15.260	-.36020	-.44250
GRADIENT		.00119	-.00149

DATE 29 AUG 74

OAS9 TABULATED SOURCE DATA

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ARC 68-709 OAS9 0A11A-(R3 V8)*STRUT

(AERO15) (25 APR 74)

REFERENCE DATA

SREF = .6055 58.FT. XMRP = 12.6255 IN.
 LREF = .5935 FT. YMRP = .0000 IN.
 BRE. = 1.710 FT ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 RFLAP = .000

RUN NO. 103/ 0 RN/L = 2.46 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.898	-4.710	-.45350	-.48970	-.35990
.900	-2.390	-.43950	-.48960	-.34970
.899	-.210	-.44300	-.48650	-.33710
.899	2.040	-.45040	-.49580	-.33740
.901	4.260	-.43320	-.48530	-.31510
.902	5.390	-.44340	-.50380	-.30290
.898	8.640	-.45190	-.53840	-.31050
.899	10.660	-.46260	-.51120	-.31480
.902	13.000	-.44850	-.50680	-.33920
.949	17.280	-.45050	-.51510	-.36300
	GRADIENT	.00116	.00011	.00455

RUN NO. 104/ 0 RN/L = 2.50 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.199	-4.670	-.42530	-.63030	-.41490
1.200	-2.420	-.41450	-.56500	-.41070
1.203	-.210	-.40730	-.55310	-.41010
1.202	2.040	-.40030	-.48680	-.40580
1.204	4.280	-.38420	-.41160	-.41160
1.202	6.52	-.34170	-.36380	-.40970
1.201	8.780	-.30910	-.34080	-.41720
1.198	11.020	-.30010	-.33960	-.42230
1.204	13.290	-.28150	-.33340	-.44720
1.203	15.500	-.26140	-.30320	-.43730
	GRADIENT	.00431	.02058	.00051

RUN NO. 103/ 0 RN/L = 2.46 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.501	-4.470	-.28650	-.38480	-.30350
1.500	-2.240	-.29630	-.39580	-.31900
1.500	.030	-.30620	-.40440	-.33180
1.498	2.180	-.30510	-.40420	-.34370
1.498	4.420	-.29620	-.38660	-.35480
1.498	6.600	-.28950	-.38030	-.36170
1.498	8.850	-.29100	-.37940	-.36710
1.498	11.040	-.26090	-.31890	-.37260
1.498	13.290	-.21760	-.26460	-.36160
1.497	15.510	-.21560	-.26330	-.35930
	GRADIENT	-.00128	-.00055	-.00555

ARC 68-708 OAS9 OALIA-(R5 V61)STRUT

PARAMETRIC DATA

REFERENCE DATA

SREF = -6033 50.FT. XMRP = 12.6235 IN. BETA = .000 ELEVOM = .000
 LREF = .5935 FT. YMRP = .0000 IN. BOFLAP = .000
 ORF = 1.1710 FT. ZMRP = -.3730 IN.
 SCALE = .0150

RUN NO. 102/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
2.005	-4.890	-1.4910	-.20740	-.18970
2.006	-2.690	-1.5470	-.21060	-.19530
2.001	-.590	-1.6510	-.21830	-.20470
2.001	1.580	-1.17470	-.22460	-.21710
2.001	3.760	-.18270	-.22990	-.23160
2.001	5.940	-.19050	-.23290	-.24110
2.001	8.070	-.19590	-.23370	-.24160
1.999	10.270	-.20070	-.23930	-.24380
1.999	12.440	-.20060	-.24100	-.24290
1.999	14.700	-.20260	-.24270	-.25090
	GRADIENT	-.00404	-.00273	-.05490

ARC 68-709 OAS9 0A11A-(N24 B8 V0)+8TRUT

(AERD16) (13 JUN 74)

REFERENCE DATA

REF = .0033 86.FT. XMRP = 12.6255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
BDFLAP = -11.700

RUN NO. 78/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.600	-15.370	-.63740	-.45400	-.44910
.599	-9.770	-.46370	-.49750	-.43000
.600	-6.670	-.35950	-.43040	-.40869
.600	-4.500	-.34770	-.41700	-.38550
.600	-2.390	-.32540	-.39490	-.35030
.598	-.300	-.32960	-.34890	-.32076
.598	.710	-.34670	-.35490	-.32130
.598	1.770	-.35270	-.35910	-.31659
.598	3.910	-.34790	-.40310	-.35649
.599	5.930	-.33520	-.41810	-.37690
	GRADIENT	-.00140	.00150	.00375

RUN NO. 77/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.698	-15.050	-.58120	-.43300	-.46820
.703	-9.740	-.46850	-.50480	-.43740
.702	-6.620	-.36280	-.43640	-.41280
.702	-4.510	-.35220	-.41050	-.38330
.702	-2.340	-.33820	-.35900	-.33210
.701	-.260	-.32040	-.31530	-.30400
.702	.850	-.33240	-.33780	-.31770
.701	1.850	-.33900	-.33170	-.31070
.701	3.900	-.34720	-.38780	-.35460
.701	6.010	-.36180	-.42500	-.39250
	GRADIENT	.00059	.00306	.00413

RUN NO. 76/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.799	-15.510	-.51190	-.47580	-.52860
.801	-10.130	-.52320	-.53370	-.45609
.798	-6.690	-.37510	-.45280	-.41720
.802	-4.870	-.34860	-.41860	-.38550
.801	-2.650	-.34320	-.37910	-.35090
.799	-.450	-.32020	-.32930	-.31420
.800	.660	-.34140	-.37410	-.35030
.805	.900	-.34780	-.37090	-.34300
.799	1.860	-.34170	-.36720	-.32560
.797	3.950	-.34880	-.40990	-.36705
.802	6.120	-.36790	-.45560	-.41820
	GRADIENT	-.00011	.00159	.00302

DATE 28 AUG 74

QAS9 TABULATED SOURCE DATA

ARC 66-759 QAS9 QALIA-IN24 RS V81+STREUT

(AER016) (13 JUN 74)

REFERENCE DATA

SREF = .8935 50.FT. XMRP = 12.6235 IN.
 LREF = .5935 FT. YMRP = .0500 IN.
 BREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 BDFLAP = -11.700

RUN NO. 73/ 0 RN/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.901	-15.420	-.57770	-.49330	-.57150
.899	-10.070	-.55520	-.58880	-.50130
.899	-6.870	-.39330	-.48130	-.44940
.899	-4.740	-.36930	-.46080	-.42190
.904	-2.540	-.37010	-.40880	-.37770
.901	-.380	-.34370	-.35080	-.35620
.899	.680	-.35020	-.36680	-.35860
.903	.920	-.35330	-.37140	-.35300
.900	1.700	-.35830	-.38450	-.34610
.900	3.830	-.38420	-.44840	-.38490
.903	5.960	-.38660	-.47560	-.42390
	GRADIENT	-.00029	.00381	.00557

RUN NO. 74/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
1.200	-15.730	-.49180	-.52350	-.47160
1.201	-10.090	-.49410	-.59510	-.45100
1.199	-6.830	-.47020	-.58960	-.43900
1.201	-4.650	-.45560	-.55910	-.42230
1.203	-2.550	-.41980	-.52590	-.41110
1.199	-.310	-.41060	-.51680	-.39870
1.201	.730	-.39810	-.51310	-.40160
1.203	1.820	-.40390	-.51100	-.40270
1.201	3.990	-.44330	-.52840	-.41180
1.202	6.360	-.46680	-.56490	-.42540
	GRADIENT	.00235	.00373	.00148

RUN NO. 75/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 3.00

MACH	BETA	CPV1	CPV2	CPV3
1.499	-16.140	-.36370	-.40980	-.36210
1.500	-10.407	-.30350	-.42580	-.34900
1.499	-7.130	-.28050	-.42100	-.34130
1.500	-4.860	-.28010	-.40020	-.33000
1.500	-2.690	-.32080	-.38010	-.31920
1.500	-.470	-.32430	-.39420	-.32980
1.500	.480	-.31080	-.40390	-.33480
1.500	1.690	-.32370	-.39390	-.33110
1.500	3.850	-.29370	-.37760	-.32640
1.502	5.990	-.30840	-.39850	-.33650
	GRADIENT	-.00141	.00117	-.00034

QAS9 TABULATED SOURCE DATA

DATE 29 AUG 74

(AER016) (13 JUN 74)

ARC 66-709 QAS9 0A11A-(IN24 R5 V6)*STRUT

PARAMETRIC DATA

ALPHA = .000 ELEVON = .080
BDFLAP = -11.700

REFERENCE DATA

SREF = .6033 36.FT. XMRP = 12.6235 IN.
LREF = .5935 FT. YMRP = .0000 IN.
PREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0130

RUN NO. 72/ 0 RN/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
1.997	-15.190	-.20710	-.22610	-.26560
2.002	-9.310	-.18050	-.21940	-.24960
1.998	-6.190	-.17140	-.21710	-.23720
1.998	-3.960	-.17090	-.21650	-.22460
2.001	-1.720	-.17320	-.21680	-.21370
2.001	.450	-.16730	-.21710	-.20780
2.000	1.100	-.17190	-.21680	-.20530
2.001	1.340	-.17410	-.21720	-.20500
1.998	2.640	-.17910	-.21880	-.20910
2.001	4.800	-.18480	-.22000	-.21340
2.001	6.950	-.19080	-.22670	-.22250
	GRADIENT	-.00145	-.00019	.00126

ARC 66-709 QAS9 CA11A-(IN24 R5 V8)*STRU

(AER017) (13 JUN 74)

REFERENCE DATA

SREF = .0033 30.FT. XMRP = 12.6255 IN.
LRFP = .9935 FT. YMRP = .0000 IN.
BRFP = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
BCFLAP = -11.700

RUN NO. 71/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
1.198	-15.260	-.45160	-.47620	-.46990
1.198	-9.740	-.47750	-.58270	-.44930
1.198	-6.450	-.46490	-.58140	-.43810
1.201	-4.280	-.45510	-.55990	-.42460
1.201	-2.140	-.42140	-.53790	-.40590
1.201	.020	-.40130	-.51810	-.40390
1.200	1.150	-.40270	-.52710	-.41010
1.202	2.190	-.41530	-.52300	-.40360
1.199	4.330	-.46180	-.55250	-.42470
1.200	6.470	-.48170	-.58080	-.42640
	GRADIENT	.00023	.00157	.00014

RUN NO. 70/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
1.500	-15.710	-.35930	-.40920	-.36330
1.499	-10.020	-.30670	-.42600	-.35240
1.500	-6.710	-.28010	-.41790	-.34050
1.500	-4.530	-.27800	-.39110	-.32930
1.500	-2.320	-.31780	-.38350	-.31940
1.499	-120	-.31420	-.39900	-.33350
1.499	.960	-.31880	-.40260	-.33750
1.500	2.060	-.31720	-.38960	-.33010
1.502	4.210	-.30830	-.38090	-.32880
1.501	6.380	-.32500	-.39860	-.34150
	GRADIENT	-.00293	.00038	-.00059

RUN NO. 69/ 0 RN/L = 2.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
1.999	-15.140	-.20840	-.22740	-.26570
1.999	-9.500	-.18490	-.22150	-.25330
2.001	-6.210	-.17400	-.21830	-.23930
2.001	-3.970	-.17200	-.21700	-.22350
1.999	-1.810	-.17460	-.21870	-.21580
1.999	.380	-.16990	-.21940	-.20810
1.998	1.480	-.17730	-.21940	-.20690
2.001	2.550	-.17870	-.21880	-.20650
2.006	4.700	-.18600	-.22090	-.21610
2.004	6.890	-.19330	-.22840	-.22490
	GRADIENT	-.00147	-.00036	.00137

ARC 46-749 OAS9 0A11A-(M24 R5 V6)*STRUT

(AERO18) (13 JUN 74)

REFERENCE DATA

REF = .6033 38.FT. XMRP = 12.6255 IN.
 LREF = .5935 FT. YMRP = .0000 IN.
 BREF = 1.3110 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .080
 BDFLAP = -11.700

RUN NO. 55/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.601	-4.620	-.28540	-.36180	-.32710
.603	-2.430	-.28420	-.34140	-.29830
.600	-.340	-.28170	-.33110	-.28950
.599	.770	-.28740	-.33370	-.29020
.600	1.700	-.28540	-.34420	-.28490
.599	3.790	-.29440	-.37750	-.31840
.599	5.890	-.28950	-.35000	-.34770
.599	8.090	-.32740	-.33620	-.37170
.599	11.180	-.47890	-.38700	-.38320
.599	16.250	-.44460	-.51980	-.56220
	GRADIENT	-.00091	-.00117	.00176

RUN NO. 54/ 0 RN/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.698	-4.570	-.30260	-.37170	-.33650
.697	-2.390	-.29120	-.35680	-.29960
.706	-.280	-.29780	-.33560	-.29400
.696	.720	-.29370	-.34730	-.29520
.697	1.840	-.29320	-.34780	-.30030
.696	3.880	-.30050	-.36920	-.31970
.699	5.990	-.29750	-.33180	-.36660
.698	8.100	-.32100	-.32170	-.37180
.697	11.280	-.49640	-.38850	-.40650
.697	16.510	-.45650	-.53650	-.57260
	GRADIENT	.00014	-.00013	.00186

RUN NO. 53/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.798	-4.520	-.31010	-.36170	-.33510
.802	-2.360	-.31290	-.37060	-.32350
.800	-.230	-.30470	-.34770	-.30320
.799	.790	-.31690	-.36490	-.31430
.798	1.980	-.31620	-.37300	-.31620
.798	4.120	-.31000	-.37420	-.33250
.795	6.130	-.29710	-.32800	-.33740
.799	8.340	-.32640	-.33290	-.39190
.799	11.490	-.48990	-.39000	-.46260
.797	16.640	-.45340	-.53690	-.57320
	GRADIENT	-.00025	-.00125	.00069

ARC 66-709 QAS9 QALIA-(IN24 R5 V0)+STRUT (AER018) (13 JUN 74)

REFERENCE DATA

SREF = .6033 32.FT.
LREF = .5935 FT.
BREF = 1.1710 FT.
SCALE = .0150

XMRP = 12.6235 IN.
YMRP = .0000 IN.
ZMRP = -.3750 IN.

ALPHA = 10.000
BOFLAP = -11.700
ELEVON = .000

PARAMETRIC DATA

RUN NO. 52/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.900	-4.480	-35600	-41740	-36070
.905	-2.230	-38090	-43370	-34260
.903	-.090	-38690	-43740	-33730
.902	.960	-38930	-43610	-33250
.901	2.080	-36270	-43390	-33700
.901	4.170	-37440	-43360	-33340
.901	6.430	-35100	-37660	-37140
.901	8.570	-37540	-34800	-.40710
.897	11.740	-40780	-33970	-44180
.899	17.150	-43320	-43270	-35420
GRADIENT		-.00119	-.00159	.00121

RUN NO. 51/ 0 RN/L = 2.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
1.200	-4.400	-34070	-36510	-.43710
1.201	-2.280	-26940	-.32340	-.42550
1.198	-.010	-.23250	-.30860	-.42710
1.198	1.040	-.27350	-.33190	-.43000
1.199	2.210	-.29460	-.35220	-.42430
1.201	4.270	-.33200	-.39160	-.41910
1.202	6.400	-.36630	-.41150	-.42570
1.203	8.610	-.37950	-.41480	-.43600
1.204	11.880	-.44520	-.45370	-.43150
1.197	17.430	-.47630	-.43930	-.48060
GRADIENT		-.00156	-.00334	.00160

RUN NO. 50/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
1.501	-4.630	-.26150	-.28930	-.36840
1.502	-2.430	-.24620	-.29150	-.37440
1.502	-.250	-.24660	-.30510	-.37670
1.501	.810	-.25120	-.31580	-.37480
1.501	1.930	-.23140	-.28420	-.35390
1.502	4.160	-.28130	-.32650	-.35600
1.502	6.330	-.27720	-.33340	-.35410
1.502	8.610	-.27060	-.31010	-.36420
1.502	11.610	-.33450	-.44570	-.35240
1.502	17.430	-.32990	-.33910	-.37670
GRADIENT		-.00109	-.00368	.00187

DATE 29 AUG 74

OAS9 TABULATED SOURCE DATA

(AERO10) (13 JUN 74)

ARC 66-709 OAS9 OAL1A-(M24 R3 V0)*STRUT

REFERENCE DATA

SREF = .6533 96.FT. XMRP = 12.6255 IN.
LREF = .5933 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
BDFLAP = -11.700

RUN NO. 49/ 0 RM/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
2.001	-4.130	-.21460	-.24430	-.25200
2.006	-1.860	-.20770	-.23670	-.24870
2.001	.290	-.20190	-.24160	-.24390
1.998	1.400	-.19810	-.24490	-.25110
1.998	2.410	-.19570	-.24540	-.24490
1.998	4.670	-.20450	-.24800	-.24500
1.998	9.050	-.23140	-.25730	-.25980
1.998	12.430	-.23860	-.26390	-.25410
1.998	17.660	-.25470	-.24770	-.27180
	GRADIENT	.00156	-.00065	.00056

ARC 66-709 OAS9 0A11A-(M24)

(AERO19) (13 JUN 74)

REFERENCE DATA

SREF = .8023 T. XMRP = 12.6235 IN.
LREF = .5935 YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVON = .000
BOFLAP = -11.700 SPODRK = 23.000

RUN NO. 123/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.596	-4.000	-.24460	-.40760	-.16670
.595	-2.000	-.26110	-.41190	-.16890
.595	.100	-.26040	-.39070	-.16610
.597	2.170	-.26680	-.36160	-.16370
.597	4.260	-.28080	-.35130	-.15550
.597	6.310	-.28210	-.34770	-.15310
.597	8.430	-.29080	-.34070	-.15140
.597	10.480	-.28690	-.32830	-.15550
.596	12.620	-.28910	-.35610	-.16930
.596	14.670	-.29300	-.39670	-.19460
	GRADIENT	-.00378	.00789	.00134

RUN NO. 122/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.801	-4.270	-.25640	-.44660	-.20380
.802	-2.230	-.28030	-.40870	-.17630
.800	-.080	-.27930	-.41750	-.16640
.800	2.060	-.28810	-.39100	-.17480
.801	4.100	-.29830	-.38560	-.17460
.802	6.200	-.30100	-.39240	-.17700
.803	8.330	-.31260	-.39410	-.17820
.800	10.480	-.31430	-.40980	-.18650
.802	12.550	-.31600	-.42870	-.19840
.801	14.710	-.32020	-.47890	-.22150
	GRADIENT	-.00444	.00661	.00285

RUN NO. 121/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.850	-4.320	-.28840	-.45300	-.15690
.850	-2.280	-.28540	-.44850	-.19680
.850	-.170	-.28830	-.42450	-.18870
.850	1.960	-.29870	-.42070	-.18930
.852	4.050	-.30200	-.40820	-.18580
.850	6.130	-.30770	-.40030	-.17400
.849	8.290	-.31480	-.41700	-.16680
.849	10.330	-.31770	-.43120	-.19140
.848	12.460	-.33430	-.46490	-.21470
.849	14.560	-.35220	-.50600	-.24000
	GRADIENT	-.00213	.00560	.00142

ARC 66-70° OAS9 OA11A-(M24)

(AERO19) (13 JUN 74)

REFERENCE DATA

3REF = .6033 94.FT. 3MRP = 12.6255 IN.
1REF = .5935 94.FT. 1MRP = .0000 IN.
2REF = 1.1710 FT. 2MRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
BCFLAP = -11.700 SPDBRK = 25.000

RUN NO. 120/ 0 RM/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.901	-4.400	-.29850	-.47220	-.21390
.896	-2.270	-.30100	-.45660	-.19610
.900	-.160	-.30420	-.44100	-.19680
.902	1.930	-.29870	-.39780	-.18180
.899	4.020	-.30740	-.39940	-.18630
.900	6.100	-.32390	-.38220	-.18810
.901	8.260	-.31910	-.41760	-.17890
.900	10.320	-.34740	-.44460	-.20060
.899	12.460	-.35400	-.45160	-.21200
.902	14.530	-.38280	-.48030	-.24890
GRADIENT		-.00074	.00971	.00302

RUN NO. 119/ 0 RM/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.931	-4.460	-.40910	-.50090	-.26030
.932	-2.330	-.39670	-.43550	-.24400
.931	-.210	-.34370	-.37860	-.24280
.931	1.930	-.31030	-.32870	-.23060
.931	4.060	-.28830	-.31260	-.23310
.932	6.150	-.28790	-.29080	-.1260
.949	8.280	-.32580	-.33940	-.23760
.949	10.390	-.33160	-.36850	-.26030
.930	12.450	-.37310	-.41640	-.30890
.930	14.610	-.37610	-.40480	-.30490
GRADIENT		-.01540	.02269	-.00319

RUN NO. 118/ 0 RM/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.200	-3.980	-.44770	-.62000	-.33360
1.201	-1.950	-.44120	-.62530	-.31940
1.199	-.220	-.44880	-.61900	-.31700
1.202	-.240	-.45100	-.61130	-.31430
1.202	2.350	-.47180	-.58650	-.31840
1.202	4.510	-.46060	-.57120	-.32330
1.200	6.650	-.45120	-.53390	-.32730
1.200	8.800	-.44970	-.53900	-.33720
1.202	10.890	-.44950	-.55040	-.34860
1.199	13.110	-.47790	-.53180	-.37230
1.201	15.190	-.49820	-.56380	-.38630
GRADIENT		-.00269	.00634	.00116

DATE 20 AUG 74 OAS9 TABULATED SOURCE DATA

ARC 66-708 OAS9 OA111A-(N24) (AERO18) (13 JUN 74)

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
BCFLAP = -11.700 SFCBRK = 25.000

REFERENCE DATA

SREF = .0533 30.FT. XMRP = 12 4255 IM.
LREF = .5933 FT. YMRP = .0000 IM.
BREF = 1.1710 FT. ZMRP = -.3750 IM.
SCALE = .0150

RUN NO. 117/ 0 RM/L = 2.49 GRADIENT INTERVAL = -5.05/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.500	-4.200	-.30320	-.40830	-.32490
1.500	-2.150	-.31110	- .41600	-.31430
1.499	-.070	-.31620	-.42390	-.29310
1.501	.460	-.31590	-.42430	-.29290
1.500	2.220	-.31530	-.42710	-.28830
1.500	4.710	-.31540	-.43230	-.28970
1.499	6.760	-.32170	-.43610	-.29290
1.497	8.890	-.33340	-.44130	-.29870
1.498	11.050	-.34460	-.44530	-.30650
1.499	13.110	-.34280	-.45460	-.30880
1.498	15.250	-.35130	-.46320	-.31340
	GRADIENT	-.00110	-.00266	-.00432

RUN NO. 116/ 0 RM/L = 2.43 GRADIENT INTERVAL = -5.05/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
2.004	-4.740	-.17350	-.23450	-.22480
1.999	-2.700	-.18010	-.23660	-.22260
1.997	-.610	-.18820	-.24270	-.22130
2.006	-.110	-.18720	-.24070	-.21750
2.000	1.540	-.19430	-.24590	-.21760
1.997	3.600	-.20020	-.25230	-.21660
1.998	5.710	-.20200	-.25430	-.20880
2.001	7.850	-.21090	-.25530	-.20830
2.003	9.920	-.20230	-.25860	-.20970
2.003	12.030	-.19960	-.26040	-.20970
2.001	14.370	-.20330	-.26330	-.21610
	GRADIENT	-.00302	-.00212	-.00105

DATE 28 AUG 74 OAS9 TABULATED SOURCE DATA

(AERODE) (13 JUN 74)

ARC 66-709 OAS9 0411A-(IN24)

REFERENCE DATA

SREF = .0033 30.FT. XMP = 12.0235 IN.
 LREF = .0033 30.FT. YMP = .0000 IN.
 BREF = 1.1710 FT. ZMP = -.3750 IN.
 SCALE = .015C

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 SDPLAP = -11.700 SPOBHA = 25.000

RUN NO. 144/ 0 RM/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.594	-3.890	-28840	-45940	-23020
.600	-1.920	-27340	-44260	-21230
.599	.150	-27870	-42860	-21770
.600	2.300	-27810	-42260	-21080
.596	4.350	-29700	-41040	-20390
.598	6.430	-30970	-38720	-19540
.606	8.560	-31660	-36870	-20230
.600	10.650	-31860	-35290	-21190
.600	12.700	-31860	-40860	-21620
.596	14.760	-31960	-41560	-22550
GRADIENT		-.00127	.00569	.00260

RUN NO. 145/ 0 RM/L = 2.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.799	-4.160	-31760	-47760	-25030
.796	-2.050	-28180	-4400	-23000
.600	.020	-30280	-44800	-23290
.798	2.090	-31080	-43050	-22900
.603	4.210	-33740	-44230	-23800
.796	6.440	-31520	-40620	-21410
.802	8.460	-34400	-44230	-23270
.799	10.550	-35910	-46550	-24090
.600	12.640	-37210	-50030	-26060
.601	14.790	-40150	-55560	-29090
GRADIENT		-.00266	.00405	.00142

RUN NO. 146/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.906	-4.320	-37100	-51080	-28080
.904	-2.210	-33240	-46790	-25650
.906	.150	-34860	-46140	-23380
.909	2.050	-36840	-40920	-23280
.901	4.190	-35050	-39200	-24080
.899	6.280	-37100	-41690	-25120
.901	8.360	-42240	-54050	-29990
.897	10.440	-41500	-54940	-27540
.899	12.540	-46080	-57050	-31580
.903	14.750	-46160	-58880	-34420
GRADIENT		.00116	.01562	.00402

DATE 20 AUG 74

OAS9 TABULATED SOURCE DATA

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ARC 64-709 OAS9 0411A-(IN24)

(1480280) (13 JUN 74)

REFERENCE DATA

BREF = .0033 30.FT. XREF = 12.0255 IN.
LREF = .0033 30.FT. YREF = .0000 IN.
BREF = 1.1710 FT. ZREF = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
BDPLAP = -11.700 SPDBEK = 25.000

RUN NO. 141/ 0 RM/L = 2.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.193	-4.410	-4.8790	-.04350	-.40480
1.197	-2.310	-.40150	-.04300	-.38760
1.199	-.210	-.47560	-.04610	-.36500
1.200	2.000	-.48340	-.04040	-.36120
1.200	4.100	-.50670	-.02730	-.36470
1.199	6.240	-.50380	-.01410	-.36320
1.196	8.410	-.49880	-.01000	-.36970
1.197	10.510	-.50480	-.01190	-.38140
1.197	12.700	-.51010	-.01140	-.39570
1.191	14.790	-.51370	-.00640	-.39930
	GRADIENT	-.00196	-.00171	-.00493

RUN NO. 140/ 0 RM/L = 2.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.501	-4.290	-.32860	-.41470	-.36570
1.500	-2.210	-.33180	-.42160	-.36050
1.498	-.030	-.34350	-.43390	-.33510
1.499	2.150	-.34560	-.43860	-.32440
1.497	4.160	-.34690	-.44300	-.32180
1.500	6.340	-.34480	-.44830	-.32090
1.500	8.460	-.34540	-.45120	-.32340
1.499	10.560	-.35500	-.46050	-.33430
1.497	12.620	-.36430	-.46490	-.34410
1.494	14.810	-.36620	-.47290	-.35720
	GRADIENT	-.01229	-.00346	-.00583

RUN NO. 139/ 0 RM/L = 2.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
2.000	-4.770	-.17990	-.23470	-.23770
2.000	-2.690	-.18540	-.23030	-.23360
2.000	-.610	-.19200	-.24280	-.23390
2.000	1.470	-.20060	-.24090	-.23170
2.000	3.650	-.20730	-.23270	-.22900
2.000	5.710	-.20600	-.23390	-.21970
1.997	7.820	-.20960	-.23810	-.22690
1.997	9.910	-.20910	-.24210	-.22840
1.997	11.990	-.20770	-.24470	-.22530
1.998	14.110	-.20860	-.24840	-.22040
	GRADIENT	-.00333	-.00223	-.00692

ARC 68-709 OAS9 OA11A-(M24)

REFERENCE DATA
 XREF = .6033 58.FT. YMRP = 12.6255 IN.
 LREF = .5935 FT. YMRP = .0000 IN.
 XREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA
 BETA = .000 ELEVON = 15.000
 BOFLAP = -11.700 SPDGRK = 25.000

RUN NO. 138/ 0 RM/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
2.005	-4.720	-.17940	-.23370	-.23930
1.997	-2.660	-.18570	-.23870	-.23530
1.999	-.370	-.19040	-.24300	-.23120
1.999	1.520	-.19970	-.24650	-.23080
1.999	3.680	-.20490	-.25200	-.22500
1.999	5.730	-.20650	-.25530	-.21730
1.999	7.870	-.20700	-.25730	-.21990
1.997	9.910	-.20700	-.26140	-.22220
1.996	12.020	-.20630	-.26390	-.22010
1.996	14.090	-.20790	-.26680	-.21750
	GRADIENT	-.00310	-.00202	.00158

ARC 68-709 OAS9 OALIA-(N24)

(AER022) (13 J 74)

REFERENCE DATA

SREF = .6033 96.FT.
 LREF = .5935 FT.
 SREF = 1.1710 FT.
 SCALE = .0130

XHRP = 12.6235 IN.
 YHRP = .0000 IN.
 ZHRP = -.3750 IN.

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 BDFLAP = .000 SPDBRK = 23.000

RUN NO. 130/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.600	-4.080	-.25650	-.43840	-.15650
.599	-1.980	-.28390	-.46450	-.18040
.600	.110	-.29150	-.43680	-.16710
.599	2.210	-.29040	-.40970	-.15770
.600	4.270	-.31090	-.38260	-.15200
.600	6.340	-.30700	-.35800	-.13940
.600	8.450	-.30580	-.33430	-.14290
.600	10.480	-.30900	-.35240	-.15080
.598	12.600	-.31820	-.37180	-.16420
.600	14.690	-.32680	-.40580	-.18990
	GRADIENT	-.00352	.00796	.00151

RUN NO. 129/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.701	-4.090	-.29250	-.45670	-.16310
.701	-2.020	-.27960	-.44170	-.16250
.700	.000	-.30090	-.42800	-.17020
.701	2.130	-.30270	-.39800	-.16080
.701	4.230	-.31540	-.36890	-.15960
.701	6.360	-.30480	-.35010	-.14260
.699	8.490	-.31480	-.36770	-.15740
.701	10.550	-.31560	-.37480	-.16100
.700	12.650	-.33590	-.40440	-.18490
.699	14.770	-.32950	-.44100	-.20500
	GRADIENT	-.00351	.01056	.00643

RUN NO. 128/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.800	-4.220	-.30260	-.47160	-.18780
.800	-2.170	-.29660	-.43500	-.17220
.800	-.120	-.34480	-.44120	-.18660
.801	2.040	-.32380	-.39060	-.16650
.800	4.110	-.32030	-.38060	-.16240
.801	6.200	-.31160	-.37980	-.16420
.802	8.350	-.32840	-.38560	-.16880
.801	10.410	-.33380	-.40790	-.17580
.801	12.540	-.37300	-.47610	-.21780
.800	14.630	-.35220	-.49930	-.21670
	GRADIENT	-.00297	.01587	.00272

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OAS9 TABULATED SOURCE DATA

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ARC 66-709 OAS9 0A11A-(N24)

(ACR022) (13 JUN 74)

REFERENCE DATA

BREF = -.0033 50.FT. XMRP = 12.6255 IN.
LREF = -.9033 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVON = .000
BDFLAP = .000 SPOBRK = 25.000

RUN NO. 127/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.901	-4.330	-.32590	-.49480	-.19630
.900	-2.330	-.34280	-.46610	-.19030
.902	-.180	-.35240	-.42260	-.18780
.900	2.000	-.35400	-.40520	-.19130
.900	4.030	-.33380	-.37330	-.16010
.900	6.200	-.31700	-.41440	-.16280
.900	8.360	-.33480	-.43730	-.18070
.899	10.500	-.34300	-.44960	-.19400
.899	12.430	-.36560	-.46110	-.22440
.901	14.570	-.38910	-.50530	-.23590
	GRADIENT	-.00127	.01436	.00356

RUN NO. 126/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.197	-4.320	-.45000	-.62380	-.34280
1.200	-1.990	-.40080	-.62540	-.32360
1.200	-.270	-.42310	-.61310	-.31850
1.199	2.380	-.47700	-.58950	-.32130
1.198	4.530	-.46750	-.57690	-.32810
1.198	6.690	-.46170	-.56450	-.33060
1.199	8.810	-.46210	-.55280	-.33680
1.199	10.920	-.46180	-.54790	-.34560
1.200	13.040	-.48670	-.57100	-.37060
1.199	15.220	-.50660	-.58210	-.38930
	GRADIENT	-.00320	.00584	.00149

RUN NO. 125/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.504	-4.280	-.30380	-.40650	-.32370
1.499	-2.130	-.31270	-.41720	-.32210
1.498	-.040	-.31580	-.42550	-.29310
1.503	.480	-.31390	-.42240	-.29180
1.498	2.100	-.31720	-.42960	-.29210
1.500	4.210	-.31750	-.43220	-.29570
1.500	6.290	-.32430	-.43830	-.29300
1.500	8.500	-.33180	-.43900	-.29300
1.498	10.590	-.34140	-.44790	-.30040
1.498	12.930	-.34970	-.45940	-.31300
1.487	15.260	-.35720	-.46150	-.31140
	GRADIENT	-.00150	-.00300	.00462

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QAS9 TABULATED SOURCE DATA

(AER022) (13 JUN 74)

ARC 66-709 QAS9 0411A-(WZ4)

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
BDCLAP = .000 SPCBRK = 25.000

REFERENCE DATA

SRF = .6033 34.FT. XMRP = 12.6255 IN.
LRF = .5933 FT. YMRP = .0000 IN.
BRF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 124/ 0 RM/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.998	-4.750	-1.17510	-2.3270	-2.2220
2.000	-2.560	-1.16210	-2.3700	-2.2450
2.004	-.530	-1.16720	-2.3990	-2.22160
2.003	1.530	-1.19600	-2.7580	-2.2800
2.003	3.620	-2.0270	-2.5100	-2.2280
2.004	5.740	-1.19730	-2.4980	-2.0340
2.002	7.850	-1.19890	-2.5440	-2.0500
2.001	9.920	-1.19890	-2.5730	-2.0360
1.999	12.030	-1.19860	-2.6140	-2.0900
1.999	14.160	-2.0160	-2.6450	-2.1070
	GRADIENT	-2.00332	-2.00218	.00006

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OAS9 TABULATED SOURCE DATA

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ARC 66-709 OAS9 OALIA-(N24)

(AER023) (13 JUN 74)

REFERENCE DATA

REF = .6035 36.FT. THRP = 12.6255 IN.
LREF = .5935 FT. THRP = .0000 IN.
BREF = 1.1710 FT. THRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
SCFLAP = 16.300 SPOBRK = 23.000

RUN NO. 137/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.602	-4.050	-.30710	-.52100	-.19490
.601	-2.010	-.30580	-.50130	-.17980
.600	.100	-.31250	-.52250	-.19400
.600	2.170	-.30570	-.53050	-.18180
.601	4.250	-.29570	-.54770	-.17940
.600	6.310	-.29870	-.57200	-.19010
.601	8.440	-.29850	-.56610	-.18420
.599	10.550	-.30270	-.55770	-.18610
.600	12.600	-.31650	-.56400	-.19700
.600	14.710	-.34650	-.53020	-.19910
	GRADIENT	.00110	-.00399	.00139

RUN NO. 136/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.699	-4.120	-.31650	-.53170	-.20810
.701	-2.080	-.32050	-.52320	-.19790
.701	.000	-.33750	-.50620	-.19190
.700	2.110	-.33820	-.51130	-.18280
.702	4.220	-.32330	-.53120	-.18750
.700	6.270	-.32210	-.56530	-.18270
.700	8.400	-.32610	-.57840	-.19230
.700	10.500	-.32780	-.57620	-.19670
.699	12.630	-.34170	-.57640	-.20640
.700	14.690	-.36760	-.57870	-.22230
	GRADIENT	-.00149	-.00133	.00269

RUN NO. 135/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.798	-4.260	-.32760	-.54660	-.21860
.800	-2.170	-.34940	-.52140	-.20470
.800	-.090	-.36680	-.52920	-.20710
.801	2.060	-.35490	-.52510	-.19510
.803	4.160	-.36140	-.52220	-.21660
.801	6.240	-.35770	-.57620	-.19890
.800	8.350	-.35600	-.59990	-.20840
.801	10.440	-.37190	-.60570	-.21540
.802	12.510	-.39090	-.62090	-.23770
.801	14.620	-.39790	-.63650	-.24480
	GRADIENT	-.00333	-.00337	.00588

ARC 68-759 OAS9 0411A-(M24)

(AER023) (13 JUN 74)

REFERENCE DATA

REF = .6033 28.FT. INRP = 12.6235 IN.
 LREF = .9935 FT. YMRP = .0000 IN.
 BREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 BDFLAP = 16.300 SPOBPK = 25.000

RUN NO. 134/ 0 RM/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
.900	-4.390	-.40110	-.57690	-.24400
.900	-2.310	-.39130	-.55180	-.22000
.901	-.200	-.40530	-.54320	-.22040
.899	1.910	-.41120	-.52530	-.21650
.899	4.030	-.41080	-.51680	-.20120
.900	6.140	-.42430	-.55370	-.21520
.901	8.270	-.41580	-.62360	-.21930
.899	10.400	-.41310	-.62010	-.22940
.900	12.470	-.42370	-.62420	-.25530
.900	14.850	-.47640	-.63660	-.28740
	GRADIENT	-.00187	.00715	.00423

RUN NO. 133/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.199	-4.470	-.46320	-.62700	-.36620
1.202	-2.350	-.46190	-.63220	-.36850
1.200	-.250	-.46780	-.64250	-.35790
1.201	1.910	-.47710	-.63890	-.35250
1.199	4.060	-.50670	-.62170	-.35520
1.199	6.170	-.51370	-.61860	-.36260
1.200	8.330	-.51310	-.61410	-.37100
1.200	10.430	-.52540	-.62420	-.38820
1.199	12.580	-.54130	-.63680	-.41440
1.200	14.700	-.54510	-.63370	-.42490
	GRADIENT	-.00481	.00020	.00359

RUN NO. 132/ 0 RM/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
1.502	-4.260	-.32090	-.41130	-.35280
1.500	-2.190	-.32510	-.42000	-.34630
1.500	-.050	-.32940	-.42760	-.32375
1.499	2.060	-.33260	-.43260	-.31795
1.501	4.220	-.32970	-.43750	-.30530
1.500	6.290	-.33230	-.44220	-.30500
1.499	8.440	-.33910	-.44790	-.31190
1.501	10.520	-.34460	-.45490	-.31700
1.501	12.660	-.35410	-.46370	-.32520
1.500	14.800	-.36240	-.47120	-.32830
	GRADIENT	-.00118	-.00306	.00552

REFERENCE DATA		PARAMETRIC DATA	
YREF =	-6035 50 FT.	XMRP =	12.6235 IN.
ZREF =	-3935 FT.	YMRP =	.0000 IN.
XREF =	1.1710 FT.	ZMRP =	-.3750 IN.
SCALE =	-.0150		
		BETA =	.000
		ELEVON =	.000
		SCFLAP =	16.300
		SPOBRK =	25.000

RUN NO. 131/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPV1	CPV2	CPV3
2.002	-4.740	-17460	-25130	-22770
2.000	-2.660	-10270	-22730	-22920
2.000	-600	-1920	-2490	-22770
2.000	1.540	-13790	-24790	-22590
1.997	3.620	-20310	-25130	-22420
1.996	7.740	-20430	-25430	-21530
2.000	7.850	-20330	-25630	-21420
2.000	9.890	-20270	-25910	-21610
2.000	12.020	-20030	-26140	-21320
2.000	14.110	-20440	-26660	-21320
	GRADIENT	-00345	-00244	-00049

DATE 29 AUG 74

0459 TABULATED SOURCE DATA

PAGE 02

ARC 66-708 0459 0411A-(IN24)

(AER024) (13 JUN 74)

REFERENCE DATA

SRCP = .0533 36.FT. XMRP = 12.8233 IN.
 LREF = .9033 FT. YMRP = .0000 IN.
 BRCP = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
 BDFLAP = -11.700 SPDBRK = 25.000

RUN NO. 150/ 0 RM/L = 2.51 GRADIENT INTERVAL = -5.00 5.00

MACH	BETA	CPV1	CPV2	CPV3
.600	-5.290	-24820	-28260	-16650
.599	-5.240	-23320	-27240	-16670
.598	-1.210	-28000	-33000	-16150
.600	-.700	-27520	-33330	-16270
.600	-.150	-28260	-34360	-16420
.600	.290	-27810	-33970	-16450
.601	.830	-27990	-34330	-17110
.599	1.980	-28240	-32770	-16910
.600	2.910	-27030	-31870	-16200
.601	4.240	-26260	-31170	-17290
.599	5.230	-26660	-32260	-17620
	GRADIENT	-.00241	-.00254	-.00074

RUN NO. 149/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.797	-4.730	-25470	-30620	-18650
.801	-2.650	-29090	-37440	-18860
.800	-.580	-29780	-39190	-18780
.799	-.100	-29960	-38810	-18980
.799	.390	-30490	-38510	-19010
.799	.990	-30590	-38830	-18980
.800	1.430	-31020	-38440	-18920
.799	2.410	-31360	-38200	-18970
.800	4.440	-27750	-34290	-19330
.799	5.520	-29530	-33800	-20360
	GRADIENT	-.00350	-.00389	-.00560

ARC 66-709 0439 0411A-(M24)

REFERENCE DATA

SREF = .0033 36.FT. XREF = 12.6235 IN.
LREF = .3935 FT. YREF = .0000 IN.
BREF = 1.1710 FT. ZREF = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
SCFLAP = -11.700 SPOBRK = 25.080

RUN NO. 146/ 0 RN/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
.900	-4.560	-.30960	-.35600	-.21740
.897	-2.510	-.31650	-.39010	-.19590
.902	-.490	-.33610	-.42130	-.20100
.900	.080	-.33930	-.42320	-.20350
.902	.510	-.35020	-.42910	-.20430
.898	1.080	-.33610	-.42880	-.20820
.901	1.540	-.33140	-.41060	-.19740
.900	2.550	-.33730	-.41490	-.21000
.900	3.370	-.31380	-.39840	-.21120
.900	4.560	-.31160	-.37310	-.20670
.901	5.630	-.33260	-.38010	-.23150
GRADIENT		-.00047	-.00247	-.00010

RUN NO. 147/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CPV1	CPV2	CPV3
1.198	-4.300	-.40650	-.45070	-.34810
1.199	-2.440	-.43690	-.49110	-.34280
1.199	-.410	-.41690	-.46550	-.33260
1.200	.080	-.41230	-.46320	-.33310
1.200	.600	-.40920	-.45970	-.33130
1.200	1.080	-.40340	-.45480	-.32820
1.200	1.640	-.39940	-.45310	-.33060
1.200	2.640	-.39610	-.45080	-.33070
1.198	3.630	-.39790	-.44680	-.33770
1.198	4.690	-.36500	-.41460	-.33560
1.199	5.670	-.36940	-.41980	-.35170
GRADIENT		.00362	.00447	.00137

REFERENCE DATA

3REF = .6033 36.FT.

1REF = .3933 31.FT.

2REF = 1.1710 37.FT.

SCALE = .0150

12.6255 IN.

-.0000 IN.

-.3750 IN.

10.000

-11.700

SPDBRK = 25.000

ALPHA =

BCFLAP =

PARAMETRIC DATA

RUN NO. 146/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00				
MACH	BETA	CPV1	CPV2	CPV3
1.500	-4.650	-.34290	-.41350	-.30290
1.497	-2.620	-.34810	-.42140	-.30970
1.496	-.370	-.33820	-.44750	-.31315
1.496	-.100	-.33610	-.44790	-.31370
1.499	.420	-.33480	-.44670	-.31220
1.497	.960	-.33800	-.44280	-.31060
1.496	1.440	-.33670	-.44080	-.30840
1.496	2.480	-.33420	-.43600	-.30280
1.498	3.500	-.33970	-.41630	-.30460
1.500	4.920	-.34460	-.41930	-.30785
1.500	5.530	-.35490	-.42490	-.31091
	GRADIENT	.00049	-.00034	.00020

RUN NO. 145/ 0 RM/L = 2.44 GRADIENT INTERVAL = -5.50/ 5.00				
MACH	BETA	CPV1	CPV2	CPV3
2.002	-4.180	-.21830	-.26300	-.21910
2.002	-2.170	-.21270	-.26170	-.22020
2.000	-.080	-.20380	-.26100	-.22220
1.997	.400	-.20330	-.26130	-.22350
1.997	.910	-.20140	-.26220	-.22300
1.995	1.420	-.20110	-.26430	-.22230
1.996	1.930	-.20160	-.26330	-.22090
1.999	2.960	-.20490	-.26470	-.22360
2.004	3.960	-.20650	-.26210	-.22320
2.001	5.000	-.21270	-.26330	-.22970
2.001	5.960	-.21690	-.26330	-.23345
	GRADIENT	.00080	-.00015	-.00069

ARC 66-709 QASS 0411A-(IN24 83 V8)-STRT-DUM BTMS

(RECOR1) (25 APR 74)

REFERENCE DATA

REF = .6033 80.FT. INHP = 12.6255 IN.
LREF = .5933 FT. INHP = .0000 IN.
REF = 1.1710 FT. INHP = -.3750 IN.
SCALE = .6158

BETA = .000 ELEVOM = .000
BDPLAP = -11.700

PARAMETRIC DATA

RUN NO. 36/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPLO	CY	CYN	CBL	CL	CD	CAB
.599	-4.380	-32860	.06470	.05200	.00370	-.00020	.00090	-.32240	.09070	-.05040
.600	-2.480	-21980	.07020	.04990	.00230	-.00020	.00060	-.21650	.07970	.04820
.601	-.320	-11000	.07230	.04830	.00120	-.00020	.00090	-.11860	.07320	.04770
.603	1.630	-.02040	.07110	.04860	.00070	-.00020	.00090	-.02270	.07040	.04570
.606	3.630	.07960	.06400	.04910	.00130	-.00010	.00100	.07310	.07130	.04610
.602	6.070	.19150	.05800	.04610	.00220	-.00020	.00110	.18430	.07800	.04490
.602	8.250	.30370	.04320	.04630	.00400	.00000	.00130	.29400	.08840	.04110
.602	10.410	.41660	.03290	.04410	.00370	-.00030	.00180	.40400	.10770	.04060
.602	12.540	.54670	.03610	.03180	.00570	-.00030	.00160	.52580	.13390	.04210
.600	14.740	.67100	.03290	.02570	.00630	-.00060	.00140	.64050	.20230	.04540
GRADIENT		.04764	.00016	-.00033	-.00029	.00001	.00032	.04635	-.00226	-.00032

RUN NO. 6/ 0 RM/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPLO	CY	CYN	CBL	CL	CD	CAB
.605	-4.710	-35400	.06450	.06180	-.00180	-.00040	.00070	-.34720	.09730	.04980
.700	-2.370	-24490	.07200	.05930	-.00100	-.00040	.00060	-.24140	.08290	.04620
.698	-.430	-13710	.07400	.05330	-.00280	-.00050	.00080	-.13660	.07500	.04540
.699	1.720	-.03190	.07420	.05560	-.00200	-.00030	.00080	-.03410	.07320	.04770
.697	3.680	.07390	.06850	.05350	-.00220	-.00040	.00080	.07110	.07350	.04570
.699	6.010	.18300	.06040	.05100	-.00130	-.00040	.00080	.17370	.07920	.04490
.700	8.240	.30290	.04820	.04860	-.00080	-.00020	.00080	.29280	.09110	.04110
.701	10.370	.43010	.04430	.04020	-.00030	-.00030	.00080	.41310	.12110	.04060
.700	12.550	.54400	.04680	.03560	.00040	-.00030	.00120	.52080	.13390	.04210
.700	14.710	.66810	.04600	.03170	.00080	-.00060	.00090	.63430	.21110	.04540
GRADIENT		.04997	.00010	-.00093	-.00006	.00009	.00002	.04882	-.00216	-.00034

RUN NO. 5/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPLO	CY	CYN	CBL	CL	CD	CAB
.749	-4.800	-36900	.06940	.06700	-.00100	-.00040	.00040	-.36190	.10000	.04940
.752	-2.700	-25830	.07380	.06480	-.00080	-.00030	.00060	-.25430	.08590	.04730
.751	-.480	-14460	.07330	.06110	-.00030	-.00030	.00060	-.14420	.07870	.04630
.748	1.770	-.03010	.07460	.05880	.00170	-.00040	.00100	-.03240	.07360	.04470
.750	3.630	.07330	.07140	.05830	-.00110	-.00030	.00060	.07040	.07620	.04720
.751	6.060	.19470	.06160	.05340	-.00060	-.00020	.00100	.18700	.08190	.04440
.756	8.240	.31690	.05180	.04980	-.00020	-.00020	.00110	.30620	.09670	.04380
.748	10.360	.43480	.05400	.04270	.00080	-.00040	.00120	.41800	.13150	.04410
.748	12.580	.54660	.05330	.03600	.00030	-.00060	.00210	.52140	.17310	.04640
.756	14.690	.66370	.05370	.03210	.00040	-.00060	.00030	.62980	.22270	.04830
GRADIENT		.05139	.00023	-.00108	-.00003	.00000	.00053	.05901	-.00275	-.00033

AEC 66-780 QASO QAS14-(M2C 25 V6)-STRUT+SUM 37MG (REPROD) (25 APR 74)

REFERENCE DATA

SREF = -0.033 34-FT. YMRP = 12.4235 IN.
LREF = -0.933 34-FT. YMRP = -0.000 IN.
BREF = 1.1710 FT. YMRP = -0.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = -.000 ELEVON = .000
OCFLAP = -11.700

RUN NO. 33/ 0 RM/L = 2.33 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CN	CA	CLMPND	CY	CYN	CBL	CL	CD	CAB
.799	-4.950	-36890	.07310	.07360	.00450	-.00020	.00070	-.38110	.10430	.03000
.801	-2.910	-27080	.07460	.07040	.00280	-.00030	.00030	-.24680	.08760	.04630
.801	-1.480	-14880	.07740	.06810	.00100	-.00030	.00080	-.14800	.07900	.04600
.802	1.830	-03320	.07780	.06300	.00120	-.00030	.00060	-.03740	.07880	.04320
.801	3.680	-06010	.07230	.06190	.00170	-.00040	.00090	.07300	.07760	.04470
.801	6.010	-20330	.06540	.03310	.00220	-.00010	.00120	.19730	.08620	.04320
.799	8.240	-33430	.06200	.04500	.00430	.00000	.00290	.32220	.10930	.04410
.797	10.410	-43920	.06190	.04430	.00390	-.00030	.00180	.42070	.14030	.04340
.800	12.600	-55830	.06420	.03470	.00480	-.00080	.00280	.77700	.18840	.04680
.800	14.740	-67480	.06930	.02790	.00510	-.00070	.00230	.10	.23870	.04900
GRADIENT		.03309	.00009	-.00148	-.00032	-.00002	.00002	.03163	-.00306	-.00034

RUN NO. 34/ 0 RM/L = 2.48 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CN	CA	CLMPND	CY	CYN	CBL	CL	CD	CAB
.800	-4.900	-40780	.07910	.08300	-.00080	-.00060	.00030	-.39940	.11420	.04990
.800	-6.670	-53590	.08020	.08280	-.00080	-.00030	.00070	-.28960	.09480	.04870
.800	-1.070	-10780	.08160	.07620	-.00100	-.00040	.00080	-.18880	.08230	.04730
.800	1.390	-04440	.08160	.07120	-.00090	-.00040	.00060	-.04670	.08030	.04530
.800	3.890	-08110	.07990	.06490	-.00030	-.00030	.00100	.07370	.08420	.04390
.800	3.970	-20390	.07710	.05680	.00040	-.00030	.00110	.19480	.09790	.04480
.800	6.170	-31790	.07680	.03480	.00020	-.00040	.00120	.30380	.12120	.04480
.800	10.300	-42660	.07370	.04930	-.00020	.00060	.00130	.40620	.15080	.04330
.800	12.310	-54260	.06320	.03610	-.00060	-.00120	.00410	.51170	.19280	.04810
.800	14.700	-65970	.04240	.02900	.00170	-.00120	.00210	.81720	.24710	.05000
GRADIENT		.03349	.00004	-.00233	.00002	.00003	.00003	.03394	-.00334	-.00031

RUN NO. 34/ 0 RM/L = 2.48 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CN	CA	CLMPND	CY	CYN	CBL	CL	CD	CAB
.800	-8.090	-43270	.06310	.10130	.00390	-.00040	.00070	-.42370	.12090	.05030
.801	-2.830	-29330	.06700	.09180	.00340	-.00030	.00060	-.28880	.10140	.04480
.807	-1.370	-13760	.06820	.07460	.00180	-.00020	.00130	-.15630	.09000	.04330
.800	1.630	-02320	.06880	.06870	.00130	-.00020	.00100	-.02370	.08810	.04480
.800	3.810	-10300	.06030	.05900	.00180	-.00030	.00110	.09880	.08690	.04310
.800	3.900	-21790	.06910	.03600	.00340	-.00020	.00090	.29740	.11120	.04270
.800	6.290	-34640	.06880	.03370	.00300	-.00040	.00160	.33220	.13750	.04130
.800	10.340	-43740	.06760	.03340	.00300	-.00080	.00100	.43420	.16830	.04160
.807	12.300	-56480	.08020	.02410	.00790	-.00170	.00330	.33190	.21020	.04390
.800	14.770	-69230	.09300	.01640	.00300	-.00110	.00070	.64380	.26640	.04640
GRADIENT		.03948	.00047	-.00487	-.00026	-.00000	.00003	.03786	-.00069	-.00023

ARC 66-709 QASO 04114-(W24 R5 V0)-STREUT-DUM STMG

(HER001) (25 APR 74)

REFERENCE DATA

REF P .0033 50-FT. YMRP = 12.0235 IM.
REF P .0033 50-FT. YMRP = .0000 IM.
REF P 1.1710 FT. YMRP = -.3750 IM.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
BDPLAP = -11.700

RUN NO. 1/ 0 RM/L = 2.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFD	CY	CYM	CBL	CL	CD	CAB
.955	-3.120	-42160	.10360	.11030	.00090	-.00020	.00050	-.41070	-.14080	.03590
.951	-2.940	-27100	.10270	.07980	.00090	-.00030	.00100	-.26340	.17630	.03070
.952	-.610	-10620	.10430	.05190	-.00010	-.00040	.00090	-.10510	.10540	.04920
.950	1.430	.03130	.10030	.03770	.00020	-.00030	.00040	.02840	.10120	.04590
.950	3.900	.16400	.10640	.01180	.00000	-.00030	.00060	.17630	.11860	.03200
.951	9.900	.29700	.10290	.00490	.00030	-.00030	.00070	.28460	.13330	.04650
.948	6.230	.41450	.09920	-.00180	.00030	-.00040	.00040	.39610	.15750	.04740
.953	10.440	.54720	.10370	-.01320	.00020	-.00020	-.00020	.51930	.20110	.03420
.951	12.600	.66000	.10350	-.02440	.00430	.00080	.00030	.62160	.24490	.03400
.947	14.900	.76770	.10450	-.03750	.00620	.00020	-.00030	.73440	.30420	.03670
GRADIENT		.06603	.00031	-.00949	-.00011	-.00003	-.00007	.06410	.00008	.00002

RUN NO. 33/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFD	CY	CYM	CBL	CL	CD	CAB
1.207	-4.040	-29120	.13080	.06550	.00070	-.00020	.00080	-.28120	-.15100	.04900
1.201	-2.890	-21810	.13210	.07170	.00130	-.00010	.00090	-.21110	.14300	.04980
1.202	-.520	-03370	.13600	.02960	.00020	-.00000	.00030	-.03250	.13650	.03030
1.201	1.700	.07980	.13620	.00470	-.00020	.00000	.00030	.07170	.13830	.04960
1.201	3.960	.21580	.13800	-.02440	.00020	.00000	.00040	.20580	.15260	.03270
1.203	6.100	.33940	.13690	-.04320	.00010	.00010	.00050	.32290	.17220	.03440
1.201	8.390	.46520	.13270	-.05400	.00070	.00020	.00180	.44090	.19910	.03550
1.197	10.650	.59140	.12870	-.06110	.00050	.00050	.00170	.53740	.23580	.03800
1.201	12.600	.72590	.12960	-.06320	.00110	.00000	.00020	.67860	.26790	.03760
1.195	15.160	.84850	.12470	-.09010	.00110	.00000	.00070	.78630	.34230	.06580
GRADIENT		.06366	.00089	-.01394	-.00013	.00002	-.00004	.06117	.00009	.00033

RUN NO. 32/ 0 RM/L = 2.50 GRADIENT INTERVAL = 5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFD	CY	CYM	CBL	CL	CD	CAB
1.900	-4.620	-24060	.15630	.04170	.00040	.00000	.00060	-.23630	.15670	.04320
1.903	-2.710	-14210	.13590	.06000	.00100	.00070	.00070	-.13550	.14250	.04200
1.900	-.410	-.02610	.13520	.00430	.00040	.00030	.00060	-.02710	.12510	.04230
1.406	1.810	.06080	.13320	-.01500	.00030	.00010	.00020	.07660	.13570	.04310
1.498	4.080	.19290	.12960	-.03240	.00020	.00000	.00030	.18320	.14290	.04290
1.409	6.210	.29600	.12670	-.04830	.00010	.00000	.00070	.28340	.15820	.04430
1.407	8.490	.40300	.12340	-.06010	.00060	.00030	.00170	.39120	.18170	.04580
1.906	10.840	.50910	.12090	-.07250	.00340	.00060	.00100	.47410	.21210	.04660
1.900	12.630	.61070	.11930	-.08550	.00000	.00060	.00090	.56890	.25210	.04750
1.409	15.060	.71730	.11700	-.09660	.00310	.00040	.00040	.66830	.29940	.04860
GRADIENT		.04963	-.00072	-.00837	-.00009	-.00006	-.00003	.04718	-.00133	.00002

DATE 29 AUG 74

QAS9 TABULATED SOURCE DATA

(REROD.) (25 APR 74)

ARC 46-709 QAS9 QAS1A-(M24 R3 V8)-STRUT+DUM STNG

PARAMETRIC DATA

REFERENCE DATA

XREF = .6033 SE.FT. XMRP = 12.6255 IN.
 LREF = .5939 FT. YMRP = .0000 IN.
 GREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

BETA = .000 ELEVON = .000
 BDFLAP = -11.700

RUN NO. 31/ 0 RN/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWC	CY	CYN	CBL	CL	CD	CAB
2.001	-9.210	-21990	.11620	.00240	.00230	.00110	-.00020	-.20030	.13760	.02250
1.996	-3.130	-13780	.11800	-.00480	.00360	.00110	-.00050	-.13120	.12530	.02340
1.998	-.970	-.03700	.11710	-.01300	.00190	.00100	-.00050	-.05500	.11010	.02380
1.997	1.240	.02360	.11520	-.02170	.00260	.00090	-.00040	.02570	.11570	.02440
1.995	3.400	.10350	.11220	-.03160	.00270	.00060	-.00020	.09860	.11030	.02440
1.999	9.580	.16560	.11030	-.03810	.00230	.00080	-.00020	.17410	.12770	.02430
2.001	7.690	.26210	.10740	-.04380	.00330	.00090	-.00030	.24530	.14150	.02390
2.001	9.820	.33740	.10510	-.04580	.00270	.00070	-.00030	.31480	.16110	.02430
2.001	12.040	.41860	.10200	-.04800	.00340	.00080	.00010	.38810	.18710	.02480
2.001	14.190	.50320	.09880	-.04980	.00320	.00080	.00010	.46560	.21960	.02370
GRADIENT		.03728	-.00089	-.00409	-.00019	-.00007	.00005	.03522	-.00107	.00017

DATE 28 JUN 74

OAS9 TABULATED SOURCE DATA

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ARC 66-709 OAS9 OAS11A-(M24 R5 V8)+STRUT+DUM STNG

(RER002) (25 APR 74)

REFERENCE DATA

SREF = .6033 50-FT. XMRP = 12.6235 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
SDFLAP = -11.700

RUN NO. 7/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.800	-4.560	-33140	.06510	.05330	-.00100	-.00020	.00070	-.32510	.09120	.04840
.801	-2.480	-22700	.07000	.04960	-.00250	-.00080	.00080	-.22370	.07970	.04820
.802	-1.350	-12510	.07260	.05010	-.00090	-.00020	.00100	-.12470	.07340	.04650
.803	1.790	-.02430	.07190	.04940	-.00260	-.00040	.00100	-.02650	.07110	.04660
.804	3.960	.08020	.06700	.04930	-.07150	-.00020	.00100	.07340	.07240	.04590
.805	6.070	.18760	.05810	.04730	-.00080	-.00030	.00070	.18040	.07760	.04450
.806	8.260	.29510	.04580	.04530	-.00060	-.00030	.00090	.28550	.08780	.04520
.807	10.350	.40910	.03400	.04340	-.00170	-.00050	.00090	.39630	.10690	.04390
.808	12.520	.53710	.03620	.03360	.00010	.00000	.00160	.51650	.15170	.04630
.809	14.720	.66240	.03530	.02650	.00220	-.00020	.0 30	.63160	.20250	.04640
GRADIENT		.04814	.00026	-.00039	-.00003	.00000	.00004	.04684	-.000216	-.00031

RUN NO. 4/ 0 RM/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.803	-4.670	-38890	.07470	.07630	.00020	-.00040	.00040	-.38120	.10750	.05030
.799	-2.790	-26800	.07550	.07070	-.00230	-.00070	.00060	-.26400	.08840	.04700
.802	-.590	-15530	.07770	.06780	-.00060	-.00030	.00080	-.15450	.07930	.04650
.801	1.610	-.03950	.07710	.06530	-.00200	-.00060	.00070	-.04170	.07590	.04550
.802	3.850	.07610	.07390	.06190	-.00110	-.00030	.00110	.07100	.07880	.04610
.800	6.030	.20060	.06540	.05430	-.00010	-.00030	.00130	.19280	.08620	.04380
.799	8.210	.32620	.06320	.04820	.00070	-.00050	.00090	.31380	.10910	.04520
.799	10.430	.43650	.06320	.04560	.00020	-.00040	.00170	.41780	.14120	.04520
.799	12.520	.54890	.06880	.03520	.00060	-.00070	.00300	.52090	.18610	.04770
.799	14.690	.66760	.06880	.02690	-.00010	-.00080	.00210	.62850	.23590	.04670
GRADIENT		.05303	-.00000	-.00156	-.00010	.00001	.00007	.05156	-.000318	-.00045

RUN NO. 2/ 0 RM/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.806	-5.130	-43770	.08420	.10220	.00160	-.00060	.00030	-.42640	.12590	.04910
.801	-2.920	-30190	.08720	.09270	-.00050	-.00050	.00060	-.29710	.10250	.04630
.801	-.690	-18430	.08900	.07860	-.00170	-.00060	.00080	-.18320	.09100	.04720
.801	1.610	-.02320	.09100	.06730	-.00130	-.00050	.00070	-.02570	.09030	.04640
.800	3.810	.09410	.08980	.06260	-.00020	-.00030	.00070	.08790	.09390	.04650
.800	5.940	.20990	.08950	.05690	-.00060	-.00030	.00040	.19930	.11080	.04480
.802	8.160	.34270	.08900	.04320	.00030	-.00060	.00070	.32660	.13670	.04560
.801	10.310	.44190	.08630	.03640	.00020	-.00060	.00120	.41890	.16690	.04410
.800	12.480	.56350	.09150	.02120	.00320	-.00020	.00320	.53230	.21160	.04650
.800	14.690	.68490	.09430	.01140	.00210	-.00190	.00130	.63860	.26490	.05160
GRADIENT		.05911	.00044	-.00452	.00006	.00003	.00001	.05748	-.00092	-.00028

(RER002) (25 APR 74)

ARC 66-709 QAS9 0A11A-(N24 R5 V8)-STRUT+DUM STNG

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
BDFLAP = -11.700

REFERENCE DATA

SREF = .6033 50.FT. XMRP = 12.6255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 8/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.09/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	C1	CYN	CBL	CL	CD	CAB
1.199	-5.090	-35230	.12920	.09370	.00010	.00010	.00125	-.33940	.15990	.05080
1.201	-2.940	-21310	.13210	.06880	-.00110	.00020	.00080	-.20600	.14290	.04910
1.201	-.680	-.06730	.13570	.03350	-.00110	.00000	.00540	-.06570	.13640	.05190
1.200	1.620	.07560	.13800	.00110	-.00030	.00000	.00040	.07170	.14010	.05300
1.203	3.600	.20140	.13840	-.02220	-.00130	.00010	.00660	.19180	.15150	.05420
1.202	6.050	.35010	.13790	-.04320	.00040	.00030	.00040	.31385	.17190	.05630
1.201	8.290	.45500	.13460	-.05620	-.00200	.00020	.00080	.43590	.19670	.05770
1.199	10.550	.57380	.12960	-.06150	-.00030	.00030	.00130	.54040	.23240	.05640
1.196	12.780	.71030	.12830	-.07430	-.00160	.00100	.00230	.66430	.28230	.05960
1.201	15.010	.83170	.12800	-.08651	-.00420	.00190	.00280	.77020	.33910	.06180
	GRADIENT	.06152	.00094	-.01337	-.00003	-.00001	-.00053	.05911	.00130	.00073

REFERENCE DATA
 SREF = .0033 98-FT. XMRP = 12.6235 IM. BETA = .000 ELEVOM = 13.000
 LREF = .9933 FT. YMRP = .0000 IM. BDFLAP = -11.700
 SREF = 1.1710 FT. ZMRP = -.3750 IM.
 SCALE = .0150

PARAMETRIC DATA

RUN NO. 30/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00												
MACH	ALPHA	CN	CA	CLMPW0	CY	CYN	CBL	CL	CD	CAB		
.602	-4.340	-.02460	.09330	-.10020	.00140	.00020	.00180	-.01730	.09690	.05680		
.600	-2.230	.07820	.10040	-.10050	.00070	.00020	.00180	.08200	.09720	.05690		
.603	-.020	.18360	.10150	-.09980	.00010	.00000	.00170	.18390	.10150	.05630		
.602	2.130	.28200	.09820	-.10020	-.00020	.00010	.00150	.27820	.10870	.05600		
.600	4.240	.36190	.09200	-.09810	-.00070	.00000	.00170	.37400	.11990	.05930		
.601	6.350	.48780	.08170	-.10020	-.00070	.00000	.00230	.47580	.13320	.05420		
.600	8.370	.61670	.07010	-.10610	-.00010	.00010	.00150	.59940	.16120	.05480		
.601	10.750	.76130	.06050	-.12000	.00150	.00000	.00190	.73680	.20120	.05380		
.602	12.830	.84960	.06870	-.11970	.00320	-.00030	.00230	.81310	.25560	.05680		
.600	15.000	.94600	.07290	-.11510	.00340	.00000	.00110	.89300	.31320	.05920		
GRADIENT		.04720	-.00041	.00021	-.00024	-.00002	-.00002	.04544	.00267	-.00016		

RUN NO. 28/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00												
MACH	ALPHA	CN	CA	CLMPW0	CY	CYN	CBL	CL	CD	CAB		
.700	-4.430	-.06190	.09900	-.08840	.00040	.00030	.00220	-.05400	.10350	.05920		
.700	-2.260	.04620	.10230	-.09290	.00010	.00010	.00170	.05020	.10040	.05770		
.700	-.190	.15590	.10450	-.09470	-.00040	.00000	.00190	.15620	.10400	.05710		
.702	2.120	.27650	.10310	-.09740	-.00040	.00010	.00200	.27240	.11320	.05740		
.702	4.220	.38010	.09560	-.09800	-.00150	-.00020	.00160	.37210	.12330	.05480		
.700	6.340	.49650	.08630	-.10430	-.00110	-.00010	.00220	.46590	.14080	.05480		
.699	8.640	.62240	.07630	-.11840	-.00100	.00000	.00120	.63350	.17350	.05410		
.700	10.690	.75030	.06410	-.11540	.00280	-.00030	.00140	.70200	.21810	.05580		
.701	12.830	.84470	.06360	-.11840	-.00090	-.00030	.00490	.80500	.26930	.05710		
.699	15.030	.94600	.06530	-.11290	.00310	-.00030	-.00080	.89150	.32760	.06080		
GRADIENT		.05140	-.00028	-.00109	-.00020	-.00005	-.00004	.04956	.00242	-.00042		

RUN NO. 26/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00												
MACH	ALPHA	CN	CA	CLMPW0	CY	CYN	CBL	CL	CD	CAB		
.799	-4.590	-.12600	.10410	-.12660	-.00060	.00040	.00200	-.11730	.11380	.06000		
.799	-2.480	-.00600	.10550	-.07690	-.00230	-.00010	.00210	-.00140	.10370	.05710		
.801	-.360	.11830	.11030	-.08330	-.00250	-.00010	.00210	.11990	.10950	.05770		
.798	-.140	.13370	.10940	-.08340	-.00060	.00000	.00230	.13400	.10910	.05720		
.800	1.930	.24590	.10820	-.09130	-.00020	.00000	.00210	.24010	.11630	.05590		
.801	4.120	.37990	.10440	-.10070	-.00160	-.00020	.00190	.37140	.13150	.05620		
.800	6.350	.52450	.10000	-.11660	.00230	-.00010	.00210	.51030	.15740	.05550		
.799	8.530	.61360	.10150	-.11130	.00010	-.00040	.00000	.59200	.19140	.05510		
.799	10.710	.71810	.10130	-.11240	-.00080	-.00020	.00170	.68670	.23290	.05640		
.799	12.820	.81590	.10630	-.11690	-.00240	-.00010	.00770	.77160	.28660	.05870		
.798	15.040	.95490	.11150	-.12840	-.00020	-.00060	.00260	.89320	.35540	.06270		
GRADIENT		.05760	.00515	-.00377	-.00056	-.00006	-.00001	.05584	.00212	-.00040		

ARC 66-709 QAS9 QAS11A-(N24 RS V8)*STRUT*DOM STNG (BER003) (25 APR 74)

REFERENCE DATA

BREF = .0033 56.FT. XMRP = 12.6235 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
SCFLAP = -11.700

RUN NO. 27/ 0 RN/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
.899	-4.940	-2.0880	.11680	-.03950	-.00410	.00080	.00170	-.19820	.13400	.08320
.901	-2.370	-.04800	.11800	-.06300	-.00160	.00040	.00170	-.04270	.12000	.03930
.900	-.430	.09920	.12230	-.08140	-.00290	-.00020	.00150	.10010	.12160	.05670
.901	1.910	.24730	.12760	-.09750	-.00240	.00000	.00160	.24280	.13560	.03670
.900	4.110	.39340	.12850	-.11500	-.00270	.00020	.00170	.38320	.15630	.03660
.901	6.270	.51910	.12580	-.12630	-.00240	-.00010	.00130	.50220	.18180	.03600
.902	6.510	.64560	.12580	-.13690	-.00230	.00000	.00100	.61990	.22000	.03540
.907	10.850	.72440	.12660	-.12680	-.00260	.00000	.00100	.68650	.25830	.03610
.902	12.860	.84850	.13510	-.14310	-.00200	-.00060	.00330	.79720	.32060	.04070
.900	14.990	.96680	.14170	-.15280	-.00020	-.00050	.00690	.89720	.38690	.06730
GRADIENT		.06700	.00146	-.00829	.00009	-.00007	-.00000	.06471	.00271	-.00044

RUN NO. 26/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
1.201	-5.010	-.22130	.15640	-.01170	-.00160	.00020	.00060	-.20700	.17520	.05910
1.202	-2.760	-.06690	.15960	-.04410	-.00190	.00030	.00060	-.06110	.16280	.05840
1.202	-.320	.06670	.16220	-.07310	-.00200	.00020	.00070	.06810	.16160	.05910
1.199	1.620	.21670	.16450	-.10390	-.00290	.00000	.00050	.21130	.17130	.03950
1.200	4.060	.35570	.16690	-.13230	-.00340	.00000	.00070	.34300	.19170	.06050
1.200	6.320	.49750	.16800	-.15710	-.00350	.00010	.00090	.47590	.22170	.08210
1.198	8.590	.63210	.16450	-.17420	-.00280	-.00010	.00110	.60050	.25710	.06250
1.199	10.610	.77270	.16560	-.19080	-.00340	.00020	.00130	.72790	.30760	.06460
1.199	13.090	.90006	.16510	-.20180	-.00260	.00000	.00120	.83920	.36470	.06530
1.199	15.290	1.02100	.16760	-.20820	-.00230	.00000	.00060	.94090	.43090	.06750
GRADIENT		.06245	.00106	-.01296	-.00024	-.00007	.00000	.05946	.00423	.00029

RUN NO. 25/ 0 RN/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
1.502	-4.970	-.15380	.15260	-.03170	-.00080	.00060	.00020	-.14090	.16460	.04820
1.503	-2.610	-.05400	.15420	-.04630	-.00160	.00060	.00020	-.04690	.15650	.04760
1.502	-.480	.04970	.15490	-.06580	-.00200	.00060	.00030	.05090	.15450	.04710
1.502	1.820	.16540	.15420	-.08550	-.00030	.00000	.00020	.16940	.15940	.04710
1.502	4.060	.27940	.15290	-.10410	-.00010	.00000	-.00030	.26790	.17230	.04710
1.499	6.310	.39130	.15170	-.12110	.00110	.00070	.00020	.37240	.19380	.04820
1.500	8.520	.49620	.15090	-.13790	-.00090	.00050	.00060	.47040	.22310	.04920
1.499	10.710	.60680	.15140	-.15270	-.00310	.00030	.00040	.56810	.26160	.05030
1.498	12.930	.71120	.15130	-.16600	-.00240	.00020	.00070	.65930	.30660	.05140
1.498	15.220	.82770	.14940	-.18080	-.00140	.00000	.00070	.75940	.36150	.05120
GRADIENT		.04961	.00002	-.00631	.00013	-.00003	-.00005	.04883	.00087	-.00012

DATE 29 AUG 74

0459 TABULATED SOURCE DATA

PAGE 73

ARC 66-709 0459 0411A-(M24 R5 V0)*STRUT+DUM STMG (BER003) (25 APR 74)

REFERENCE DATA

SREF = .6033 36.FT. YMRP = 12.6255 IM.
LREF = .5935 FT. YMRP = .0000 IM.
BREF = 1.1710 FT. ZMRP = -.3750 IM.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
BDFLAP = -11.700

RUN NO. 24/ 0 RM/L = 2.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CM	CA	CLMPW	CY	CYN	CBL	CL	CD	CAB
1.999	-5.170	-.16140	.12760	-.04030	.00130	.00120	-.00040	-.14920	.14160	.02550
1.997	-3.190	-.08680	.12840	-.04790	.00080	.00100	-.00060	-.07950	.13300	.02620
1.997	-.890	-.00080	.12920	-.05650	-.00040	.00080	-.00070	.00130	.12920	.02610
1.997	1.310	.08070	.12860	-.06480	.00030	.00050	-.00060	.07770	.13040	.02630
1.997	3.460	.16050	.12840	-.07470	.00000	.00080	-.00030	.15250	.13780	.02620
1.996	5.690	.24300	.12710	-.08280	-.00010	.00070	-.00060	.22920	.15060	.02570
1.999	7.790	.31400	.12480	-.08810	-.00020	.00070	-.00050	.29420	.16620	.02550
2.002	9.980	.39730	.12410	-.09260	.00010	.00060	-.00040	.36970	.19110	.02590
2.005	11.970	.47620	.12320	-.09610	-.00010	.00040	-.00010	.44030	.21930	.02600
2.005	14.170	.56510	.12130	-.10110	.00170	.00070	-.00030	.51820	.25600	.02630
	GRADIENT	.03717	-.00003	-.00400	-.00008	-.00002	.00002	.03487	.00069	.00001

ARC 66-709 OAS9 0A11A-(N24 R5 V6)*STRUT+DUM STNG (RER004) (25 APR 74)

REFERENCE DATA

3REF = .0033 90.FT. XMRP = 12.6255 IN.
 LREF = .9935 FT. YMRP = .0000 IN.
 BREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 BDFLAP = -11.700

RUN NO. 12/ 0 RN/L = 2.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
.603	-4.320	-.01280	.09660	-.09970	.00160	.00010	.00160	-.00520	.09730	.03770
.598	-2.170	.00860	.10090	-.10000	.00040	.00000	.00170	.09240	.09740	.03770
.601	-.100	.16360	.10220	-.10000	.00090	.00000	.00180	.18380	.10190	.03670
.603	2.040	.28290	.09890	-.09930	.00040	.00000	.00150	.27920	.10890	.03690
.600	4.220	.38280	.09160	-.09730	.00010	-.00010	.00160	.37500	.11930	.03450
.597	6.360	.49170	.08150	-.10020	.00060	-.00020	.00170	.47970	.13530	.03480
.600	8.470	.60930	.07070	-.10520	.00060	-.00020	.00100	.59240	.15970	.03440
.603	10.650	.75930	.06010	-.11960	.00090	-.00040	.00180	.73530	.19930	.03390
.601	12.790	.85160	.06950	-.11020	.00240	-.00080	.00110	.81510	.25630	.03610
.599	14.930	.94430	.07280	-.11590	.00150	-.00040	.00020	.89360	.31390	.03820
GRADIENT		.04627	-.00057	.00025	-.00014	-.00002	-.00001	.04449	.00263	-.00034

RUN NO. 11/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
.608	-4.450	-.05070	.10040	-.08970	.00140	.00040	.00200	-.04270	.10410	.03910
.700	-2.270	.05760	.10340	-.09290	.00110	.00010	.00170	.06160	.10110	.03620
.699	-.140	.16430	.10570	-.09320	.00060	.00000	.00190	.16480	.10330	.03740
.703	2.010	.27150	.10250	-.09750	.00030	.00000	.00190	.28770	.11200	.03660
.702	4.160	.38040	.09630	-.09820	.00080	.00010	.00190	.37240	.12370	.03580
.694	6.380	.50410	.08590	-.10330	.00090	-.00020	.00220	.49150	.14140	.03470
.699	8.530	.64330	.07720	-.11620	.00030	.00000	.00130	.62470	.17170	.03380
.703	10.680	.73280	.08510	-.11610	.00160	.00010	.00330	.70410	.21930	.03500
.702	12.790	.83990	.08390	-.11640	.00030	-.00030	.00370	.80030	.26770	.03680
.699	14.950	.93730	.08570	-.11070	.00220	-.00030	-.00020	.88350	.32460	.03980
GRADIENT		.05003	-.00042	-.00100	-.00006	-.00005	-.00000	.04820	.00233	-.00029

RUN NO. 10/ 0 RN/L = 2.51 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
.601	-4.630	-.11440	.10320	-.06740	-.00050	.00030	.00190	-.10570	.11210	.03890
.604	-2.460	.00690	.10690	-.07640	-.00040	.00010	.00220	.01350	.10640	.03710
.603	-.260	.13300	.11630	-.08390	-.00130	.00000	.00220	.13350	.10870	.03620
.605	1.920	.25500	.11000	-.09160	-.00180	-.00020	.00260	.25120	.11850	.03630
.799	4.190	.38670	.10450	-.10020	-.00010	.00000	.00190	.37890	.13250	.03560
.601	6.360	.53390	.10080	-.11630	.00040	.00000	.00190	.51940	.15930	.03530
.601	8.450	.61520	.10330	-.11200	.00010	-.00030	.00170	.59330	.19260	.03580
.601	10.720	.72510	.10230	-.11250	.00010	-.00010	.00230	.69340	.23340	.03520
.600	12.870	.82430	.10930	-.11910	-.00020	-.00010	.00810	.77920	.29020	.03940
.601	14.940	.94380	.11050	-.12520	.00170	-.00030	.00270	.88340	.35010	.06180
GRADIENT		.05669	.00025	-.00367	-.00003	-.00006	.00002	.05473	.00241	-.00034

DATE 28 AUG 74 0459 TABULATED SOURCE DATA

ARC 66-709 0459 0411A-(N24 R5 V8)+STRUT+DUM STNG (RER004) (25 APR 74)

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
SDFLAP = -11.750

REFERENCE DATA

SREF = .0033 36.F.. XMRP = 12.8235 IN.
LREF = .5935 FT. YMRP = .0050 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 9/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CN	CA	CLWFO	CY	CYN	CBL	CL	CO	CAB
.900	-4.820	-1.18750	.11600	-.04290	-.00130	.00090	.00220	-.17710	.13130	.06110
.906	-2.660	-.03990	.12030	-.06310	-.00200	.00060	.00180	-.03420	.12220	.06070
.903	-.430	.10720	.12500	-.08160	-.00140	.00000	.00160	.10810	.12220	.03830
.902	1.950	.25740	.12250	-.09660	-.00110	-.00010	.00180	.25310	.13120	.05460
.899	4.080	.39360	.12590	-.11210	-.00030	.00010	.00170	.38390	.15360	.05370
.894	6.220	.51490	.12180	-.12210	-.00090	.00000	.00140	.49870	.17690	.05320
.897	8.450	.64330	.12240	-.13440	-.00280	.00040	.00350	.61830	.21560	.05430
.902	10.580	.71930	.12620	-.12370	-.00150	.00010	.00140	.68390	.23600	.05490
.903	12.730	.83980	.13380	-.13980	.00130	-.00070	.00300	.78960	.31550	.05880
.903	14.970	.95070	.13720	-.14430	.00150	-.00060	.00120	.88290	.37810	.05140
	GRADIENT	.06514	.00097	-.00766	.00013	-.00010	-.00004	.06288	.00240	-.00076

ARC 66-709 0459 0411A-(M24 R5 V01)STUT+DUM SYNG

(IRER005) (25 APR 74)

REFERENCE DATA

SREF = .0033 50-FT. XMR = 12.8233 IN.
 LREF = .3935 FT. YMRP = .0000 IN.
 SREF = 1.1710 FT. ZMRP = -.3730 IN.
 SCALE = .0190

BETA = .000 ELEVON = .000
 BDFLAP = 16.300

PARAMETRIC DATA

RUN NO. 16/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CM	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.000	-4.510	-.25180	.06420	.00110	-.00190	-.00030	.00060	-.24390	.00360	-.04630
.001	-2.430	-.14630	.06940	.00000	-.00110	-.00030	.00040	-.14540	.07560	-.04690
.002	-.310	-.04920	.07110	-.00120	-.00220	-.00080	.00080	-.04680	.07140	-.04570
.000	1.910	.05970	.06920	-.00370	-.00110	-.00040	.00070	.05440	.07110	-.04500
.001	3.080	.15940	.04300	-.00380	-.00090	-.00060	.00060	.15460	.07390	-.04330
.001	6.190	.26490	.05290	-.00390	-.00040	-.00080	.00080	.25770	.06110	-.04230
.002	8.230	.37600	.04160	-.00710	-.00140	-.00030	.00030	.36620	.09510	-.04290
.001	10.400	.49290	.03010	-.00970	-.00180	-.00080	.00120	.4730	.11650	-.04360
.001	12.820	.61870	.03500	-.02100	-.00040	-.00020	.00130	.59640	.16830	-.04430
.002	14.000	.73980	.03450	-.02650	.00140	-.00080	.00100	.70700	.22060	-.04680
GRADIENT		.04620	-.00012	-.00063	.00008	-.00000	.00001	.04694	-.00114	-.00036

RUN NO. 15/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CM	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.702	-4.000	-.27600	.06080	.00430	-.00120	-.00070	.00040	-.27030	.09100	-.05070
.000	-2.340	-.16130	.07090	.00230	-.00030	-.00030	.00030	-.15620	.07600	-.04630
.702	-.390	-.03790	.07330	.00110	-.00110	-.00040	.00060	-.05740	.07390	-.04660
.702	1.760	.05030	.07170	-.00130	-.00090	-.00040	.00060	.04830	.07320	-.04640
.701	3.900	.15970	.06630	-.00260	-.00140	-.00030	.00070	.15380	.07690	-.04660
.000	6.100	.27100	.03590	-.00600	-.00240	-.00070	.00070	.26430	.08430	-.04330
.702	8.260	.38970	.04450	-.00760	-.00160	-.00080	.00070	.37930	.10000	-.04340
.000	10.430	.51100	.04240	-.01000	-.00230	-.00100	.00030	.49490	.13480	-.04260
.704	12.670	.63880	.04900	-.02370	.00040	-.00080	.00150	.61320	.18590	-.04640
.701	14.740	.75410	.04740	-.02730	.00070	-.00080	.00030	.71720	.23770	-.05040
GRADIENT		.03036	-.00020	-.00103	-.00004	.00002	.00004	.04924	-.00154	-.00039

RUN NO. 14/ 0 RM/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CM	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.000	-4.000	-.30230	.07410	.01290	.000	-.00030	.00030	-.29490	.09940	-.05190
.001	-2.760	-.18590	.07640	.00990	-.000	-.00080	.00040	-.18200	.08520	-.05000
.002	-.580	-.07810	.07840	.00610	-.00250	-.00060	.00040	-.07130	.07910	-.04610
.001	1.620	.04570	.07630	.00290	-.00290	-.00070	.00030	.04330	.07760	-.04720
.000	3.760	.15430	.07060	-.00090	-.00120	-.00070	.00040	.15340	.08080	-.04540
.707	5.940	.26120	.04330	-.00730	-.00090	-.00080	.00040	.27310	.09210	-.04470
.700	8.190	.41010	.06190	-.01750	-.00140	-.00040	.00100	.39710	.11970	-.04590
.708	10.360	.52000	.06120	-.02040	-.00130	-.00080	.00120	.50950	.15360	-.04580
.708	12.400	.63190	.06960	-.03210	-.00100	-.00080	.00350	.60240	.20680	-.04710
.000	14.700	.76270	.07020	-.04110	.00200	-.00110	.00250	.72900	.26150	-.05230
GRADIENT		.05332	-.00033	-.00133	-.00022	-.00002	.00002	.05190	-.00297	-.00073



PARAMETRIC DATA

SREF = .0033 38-FT. XMRP = 12.8233 IM. BETA = .000 ELEVOM = .000
 LREF = .5933 FT. YMRP = .0000 IM. BDFLAP = 16.300
 SREF = 1.1710 FT. ZMRP = -.3730 IM.
 SCALE = .0130

REFERENCE DATA

RUN NO. 13/ 0 RM/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.900	-3.480	-3.480	.08610	.03340	.00040	.00030	.00030	-.33000	.11600	.03440
.902	-2.830	-2.830	.08750	.02370	.00090	.00040	.00040	-.21030	.09800	.03280
.901	-.840	-.840	.09020	.01470	-.00120	.00040	.00060	-.08100	.09120	.03230
.898	1.330	.04450	.08970	.00300	-.00060	.00030	.00090	.04210	.09090	.03020
.902	3.860	.18060	.09010	-.00310	.00010	.00070	.00070	.17410	.10210	.04990
.899	3.980	.29060	.08710	-.00810	-.00050	.00040	.00100	.27990	.11690	.04820
.901	8.170	.41090	.08830	-.01900	.00130	.00030	.00030	.39430	.14360	.04840
.901	10.320	.51670	.08360	-.02810	.00010	.00070	.00060	.49300	.17670	.04660
.899	12.480	.64350	.09030	-.04610	.00410	-.00220	.00310	.60690	.22700	.05090
.900	14.670	.76700	.09410	-.03680	.00480	-.00240	.00130	.71810	.28330	.03530
GRADIENT		.03947	.00046	-.00442	-.00026	-.00002	.00006	.05777	-.00155	-.00032

RUN NO. 16/ 0 RM/L = 2.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
1.201	-2.890	-1.7610	.13830	.02970	.00030	.00030	.00130	-.16900	.14500	.03330
1.200	-.700	-.03020	.13980	-.00760	.00030	.00020	.00080	-.02830	.14010	.05480
1.202	1.590	.11280	.14370	-.04080	.00010	.00010	.00070	.10880	.14880	.05680
1.200	3.770	.24690	.14830	-.06880	.00010	.00020	.00080	.23670	.16220	.05940
1.201	6.050	.37960	.14700	-.09110	.00030	.00010	.00030	.36200	.16620	.06190
1.200	8.310	.51030	.14590	-.10750	.00200	.00040	.00090	.46380	.21810	.06470
1.202	10.330	.62660	.14310	-.11460	.00030	.00030	.00140	.58990	.25320	.06370
1.199	12.780	.76690	.14210	-.12980	.00050	.00000	.00370	.71650	.30820	.06800
1.198	14.890	.88730	.14190	-.14060	.00080	.00100	.00210	.82040	.36660	.06830
GRADIENT		.06340	.00132	-.01476	-.00006	-.00002	-.00007	.06082	.00262	.00098

RUN NO. 17/ 0 RM/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
1.900	-4.790	-.22140	.14200	.01270	.00020	.00070	.00030	-.20880	.16000	.04580
1.900	-2.870	-.11490	.14190	-.00300	.00010	.00060	.00040	-.10820	.14670	.04370
1.497	-.430	-.00280	.14040	-.02340	.00030	.00040	.00030	-.00130	.14030	.04330
1.498	1.760	.10620	.13860	-.04600	-.00010	.00030	.00030	.10390	.14190	.04310
1.900	4.000	.21950	.13720	-.06600	.00030	.00030	.00050	.29940	.13220	.04460
1.499	6.180	.32770	.13420	-.08350	.00020	.00020	.00060	.31130	.16870	.04500
1.900	8.360	.43060	.13200	-.09810	.00040	.00020	.00100	.40685	.19330	.04640
1.900	10.590	.53650	.13190	-.11130	.00040	.00020	.00320	.50320	.22790	.04770
1.499	12.740	.64420	.12940	-.12730	.00020	.00020	.00060	.59980	.26830	.04810
1.901	14.980	.75630	.12730	-.14060	.00130	.00030	.00110	.69790	.31880	.04800
GRADIENT		.03020	-.00037	-.00952	-.00018	-.00005	-.00000	.04764	-.00091	-.00013

(RENU05) (23 APR 74)

ARC 60-709 QASS Q011A-(M24 R3 V03)-STREUT-DUM STMG

PARAMETRIC DATA

REFERENCE DATA

REF : .0033 90.FT. HMP = 12.6233 IN. BETA = .000 ELEVON = .000
 LREF : .0033 FT. YMP = .0000 IN. DFLAP = 16.300
 REF : 1.1710 FT. ZMP = -.3730 IN.
 SCALE : .0150

RUN NO. 23/ 0 RM/L = 2.47 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	CN	CA	CLMFG	CY	CYN	CBL	CL	CD	CAB
2.003	-3.220	-.19320	.12110	-.01360	.00410	.00120	.00000	-.16340	.13930	.02390
2.003	-3.260	-.12010	.12160	-.02230	.00350	.00120	.00010	-.12100	.12070	.02360
2.004	-1.010	-.03740	.12060	-.03300	.00360	.00110	.00010	-.03350	.12120	.02450
2.003	1.320	.03260	.11950	-.04330	.03320	.00100	.00020	.05010	.12070	.02500
2.004	3.250	.12600	.11660	-.03280	.00360	.00100	.00010	.11900	.12360	.02540
2.003	3.500	.20630	.11600	-.06260	.00360	.00100	.00020	.19620	.13540	.02460
2.003	7.730	.20940	.11360	-.07030	.00300	.00090	.00030	.27150	.15170	.02430
2.003	9.800	.37060	.11160	-.07380	.00310	.00090	.00030	.34390	.17370	.02460
2.001	12.090	.45900	.10640	-.07790	.00450	.00110	.00050	.42220	.20130	.02470
2.001	14.250	.54120	.10630	-.04370	.00420	.00090	.00050	.49840	.23620	.02340
GRADIENT		.03901	-.00046	-.00465	.00001	-.00003	.00001	.03666	-.00049	.00024

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Q439 TABULATED SOURCE DATA

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ARC 66-709 Q439 Q411A-1M24 R5 V8)*STRUT*DUM STMG

(RECR006) (25 APR 74)

REFERENCE DATA

QREF = .0033 94.FT. XMRP = 12.6233 IN.
 LREF = .5935 FT. YMRP = .0000 IN.
 QREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 SCFLAP = .000

RUN NO. 20/ 0 RM/L = 2.34 GRADIENT INTERVAL = -.5.00/ 9.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.801	-4.828	-3.1070	.05940	.03640	-.00190	-.00000	.00040	-.30300	.08430	.04710
.801	-2.490	-.19990	.06440	.03440	-.00340	-.00030	.00050	-.19890	.07300	.04390
.801	-.340	-.09980	.06700	.03250	-.00160	-.00020	.00080	-.09920	.06760	.04370
.801	1.770	.00110	.06370	.03210	-.00110	-.00010	.00090	-.00100	.06370	.04290
.801	3.940	.10780	.05990	.03030	-.00120	-.00010	.00110	.10340	.06720	.04190
.801	6.030	.20680	.05100	.02910	-.00170	-.00030	.00070	.20030	.07250	.04080
.801	8.230	.32300	.03870	.02630	-.00040	-.00020	.00100	.31410	.08430	.03870
.801	10.360	.43590	.02640	.02700	.00120	-.00070	.00130	.42400	.10440	.04070
.801	12.480	.54930	.03000	.01510	.00010	-.00000	.00170	.54350	.13140	.04330
.801	14.870	.68920	.03090	.00810	.00170	-.00100	.00140	.65890	.20440	.04340
GRADIENT		.04855	.00011	-.00070	.00017	.00000	.00007	.04737	-.00194	-.00065

RUN NO. 19/ 0 RM/L = 2.31 GRADIENT INTERVAL = -.5.00/ 9.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.800	-5.130	-.40840	.07030	.08190	.00130	-.00020	.00070	-.39980	.11450	.04970
.801	-2.820	-.27370	.07850	.07110	.00050	-.00010	.00080	-.27130	.08250	.04300
.801	-.660	-.13230	.08110	.05870	.00060	-.00010	.00100	-.13150	.08270	.04320
.801	1.490	-.00610	.08190	.04810	-.00100	-.00030	.00070	-.00820	.08170	.04330
.801	3.720	.12010	.07900	.03990	.00030	-.00010	.00070	.11470	.08670	.04090
.803	5.890	.23830	.07990	.03490	.00010	-.00030	.00040	.22910	.10400	.04170
.801	8.130	.35950	.07910	.02620	.00090	-.00040	.00030	.34510	.12920	.04910
.802	10.290	.48320	.07980	.01970	.00030	-.00030	.00130	.44150	.16130	.04120
.801	12.420	.57480	.08380	.00650	.00380	-.00210	.00320	.54330	.20550	.04490
.801	14.840	.70130	.08360	-.00720	.00310	-.00200	.00130	.65690	.26010	.04630
GRADIENT		.05954	.00011	-.00472	-.00210	-.00001	-.00003	.05906	-.00084	-.00075

RUN NO. 22/ 0 RM/L = 2.31 GRADIENT INTERVAL = -.5.00/ 9.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
1.100	-5.040	-.33550	.12600	.09610	-.00060	-.00010	.00120	-.34310	.15870	.05260
1.202	-2.920	-.21070	.12800	.08300	-.00120	-.00010	.00150	-.20350	.13860	.05040
1.202	-.680	-.06950	.12970	.03080	-.00160	-.00010	.00080	-.06600	.13050	.05070
1.200	1.570	.07470	.13190	-.00090	-.00210	-.00020	.00070	.07100	.13390	.05100
1.201	3.950	.22120	.13350	-.03160	-.00210	-.00010	.00040	.21150	.14840	.05330
1.203	6.060	.34220	.13440	-.05310	-.00150	.00000	.00030	.32610	.16980	.05630
1.201	8.320	.46840	.13020	-.06380	-.00040	.00010	.00110	.44480	.19650	.05710
1.197	10.590	.58990	.12640	-.07090	-.00030	.00030	.00140	.55660	.23270	.05870
1.100	12.750	.72370	.12750	-.08980	-.00060	.00000	.00040	.87790	.28380	.06110
1.100	15.010	.83240	.12590	-.10140	-.00040	.00040	.00140	.99570	.34240	.06270
GRADIENT		.06298	.00082	-.01380	-.00014	-.00000	-.00012	.06039	.00146	.00040

ARC 80-709 0459 0411A-1M24 R3 V01-STRUT-01M STNG

(RER006) (25 APR 74)

REFERENCE DATA

REF = -0493 50.FT. TEMP = 12.6235 IM.
LREF = -5933 FT. YREF = .0500 IM.
BREF = 1.1710 FT. ZREF = -.3750 IM.
SCALE = .0150

PARAMETRIC DATA

BETA = .050 ELEVOM = .000
BCFLAP = .000

RUN NO. 21/ 0 RM/L = 2.44 GRADIENT INTERVAL = -.5.0L/ 5.00

MACH	ALPHA	CN	CA	CLMFLD	CY	CYN	CBL	CL	CO	CAB
2.001	-5.310	-21950	.11740	-.00080	.00310	.00120	-.00030	-.20770	.13720	.02250
2.000	-3.170	-13920	.11810	-.00730	.00170	.00120	-.00030	-.13240	.12360	.02290
1.996	-1.010	-.05020	.11580	-.01370	.00000	.00110	-.00510	-.03420	.11680	.02360
2.000	1.150	.02670	.11450	-.02360	.00070	.00100	.00000	.02440	.11500	.02410
1.999	3.290	.10400	.11310	-.03480	.00190	.00090	-.00020	.09930	.11900	.02450
1.999	9.460	.18760	.11000	-.04250	.00100	.00080	-.00010	.17630	.12740	.02400
1.999	7.650	.26300	.10700	-.04770	.00060	.00080	-.00010	.24640	.14110	.02370
1.997	9.790	.34070	.10420	-.05080	.00130	.00070	.00010	.31800	.16060	.02410
1.997	11.950	.42280	.10120	-.05370	.00280	.00090	.00020	.39260	.16660	.02450
1.997	14.110	.50760	.09790	-.05640	.00290	.00080	.00030	.46840	.21860	.02510
GRADIENT		.03600	-.00076	-.00429	.00006	-.00005	.00002	.03592	-.00101	.00025

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OAS5 TABULATED SOURCE DATA

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ARC 66-705 OAS5 OAS1A-IM24 RS V0)•STRUT•DUM STM6

(HER007) (25 APR 74)

REFERENCE DATA

WREF = .0033 54. FT. ZREF = 12.0233 IN.
LREF = .0033 FT. YREF = .0000 IN.
WREF = 1.1710 FT. ZREF = -.3750 IN.
SCALE = .0133

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
BOFLAP = -11.700

RUN NO. 42/ 0 RM/L = 2.49 GRADIENT INTERVAL = -3.00/ 9.00

MACH	BETA	CN	CA	CLMPMO	CY	CYM	CBL	CL	CO	CAB
.999	-15.020	-.04620	.06920	.03260	.13000	.02800	-.02690	-.08610	.06940	.03990
.998	-9.700	-.08240	.07110	.04000	.09700	.01780	-.01690	-.09230	.07120	.03160
.997	-4.390	-.09240	.07170	.04840	.06700	.01160	-.01030	-.09230	.07190	.04830
.996	-4.480	-.09040	.07230	.05170	.04160	.00730	-.00630	-.12030	.07270	.04760
.995	-2.330	-.09120	.07310	.05320	.02470	.00340	-.00330	-.09110	.07320	.04770
.994	-.270	-.08780	.07390	.05350	.00360	-.00010	.00030	-.08770	.07400	.04790
.993	.610	-.08580	.07290	.05490	-.00630	-.00200	.00200	-.08370	.07300	.04780
.992	1.820	-.08390	.07270	.05300	-.01680	-.00360	.00340	-.08380	.07280	.04740
.991	3.910	-.08330	.07240	.05340	-.03630	-.00730	.00670	-.08340	.07330	.04620
.990	6.000	-.08080	.07030	.05150	-.06030	-.01140	.00990	-.08070	.07040	.04770
GRADIENT		.00077	.00056	.00029	-.01000	-.00177	.00139	.00077	.00003	.00004

RUN NO. 41/ 0 RM/L = 2.53 GRADIENT INTERVAL = -3.00/ 9.00

MACH	BETA	CN	CA	CLMPMO	CY	CYM	CBL	CL	CO	CAB
.999	-15.040	-.10150	.07280	.03740	.13610	.02830	-.02730	-.10130	.07300	.06320
.998	-9.720	-.10250	.07340	.05040	.09870	.01740	-.01630	-.10230	.07380	.03210
.997	-4.390	-.10220	.07330	.05340	.07060	.01150	-.01020	-.10210	.07330	.04930
.996	-4.470	-.10030	.07440	.05800	.04640	.00760	-.00660	-.10040	.07430	.04770
.995	-2.310	-.09940	.07400	.05940	.02470	.00330	-.00300	-.09930	.07420	.04730
.994	-.250	-.09960	.07330	.05900	.00330	.00010	.00010	-.09940	.07340	.04770
.993	.640	-.09650	.07440	.06010	-.00630	-.00180	.00200	-.09640	.07430	.04790
.992	1.900	-.09740	.07360	.06030	-.01930	-.00380	.00340	-.09720	.07370	.04730
.991	3.970	-.09500	.07430	.05910	-.03990	-.00730	.00640	-.09370	.07460	.04770
.990	6.050	-.09440	.07280	.05880	-.06370	-.01110	.01070	-.09430	.07270	.05140
GRADIENT		.00037	.00008	.00017	-.01044	-.00113	.00134	.00037	.00007	.00001

RUN NO. 40/ 0 RM/L = 2.52 GRADIENT INTERVAL = -3.00/ 9.00

MACH	BETA	CN	CA	CLMPMO	CY	CYM	CBL	CL	CO	CAB
.999	-15.070	-.12930	.04300	.04890	.15510	.02870	-.02890	-.12930	.04330	.08880
.998	-9.670	-.11920	.07660	.06040	.10490	.01620	-.01710	-.11900	.04300	.03400
.997	-4.470	-.11900	.07680	.06350	.08980	.01020	-.01090	-.11900	.07900	.03040
.996	-4.390	-.11790	.07760	.06740	.06700	.00630	-.00690	-.11730	.07790	.04860
.995	-2.220	-.11340	.07670	.06830	.02390	.00260	-.00340	-.11320	.07690	.04610
.994	-.136	-.11300	.07830	.07030	.00230	-.00040	.00010	-.11330	.07660	.04860
.993	.880	-.11090	.07690	.06980	-.00650	-.00200	.00200	-.11030	.07710	.04380
.992	1.020	-.11100	.07830	.06980	-.02100	-.00370	.00330	-.11060	.07670	.04640
.991	4.150	-.11100	.07760	.06860	-.04670	-.00720	.00690	-.11080	.07780	.04760
.990	6.230	-.11060	.07370	.06870	-.08990	-.01100	.01040	-.11040	.07390	.05110
GRADIENT		.00077	.00057	.00026	-.01099	-.00156	.00163	.00077	.00006	-.00011

REFERENCE DATA

SRF = .6053 32.FT. XMRP = 12.6255 IN.

LRF = .5935 FT. YMRP = .0000 IN.

BRF = 1.1710 FT. ZMRP = -.3750 IN.

SCALE = .0150

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000

BDCLAP = -11.700

RUN NO. 39/ 0 RN/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00											
MACH	BETA	CN	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB	
.897	-15.030	-.14450	.10090	.05290	.18380	.02230	-.03230	-.14420	.10140	.06940	
.898	-9.630	-.12270	.09650	.06680	.11850	.01260	-.02010	-.12240	.09860	.05820	
.900	-6.410	-.11670	.09260	.07290	.07840	.00800	-.01300	-.11650	.09290	.03210	
.900	-4.260	-.10630	.09220	.07470	.05420	.00480	-.00840	-.10810	.09240	.03110	
.900	-2.150	-.10840	.09200	.07640	.02790	.00190	-.00380	-.10830	.09220	.04750	
.897	.000	-.10760	.08970	.07890	.00040	-.00070	.00010	-.10740	.08990	.04860	
.900	1.100	-.10370	.08080	.07730	-.01140	-.00200	.00220	-.10350	.09100	.04720	
.899	2.170	-.10120	.08190	.07710	-.02610	-.00330	.00400	-.10110	.08200	.04860	
.899	4.260	-.10410	.08770	.07680	-.05060	-.00610	.00850	-.10400	.08780	.04780	
.899	6.360	-.10670	.08910	.07330	-.07650	-.00920	.01230	-.10660	.08930	.03110	
GRADIENT		.00076	-.00041	.00023	-.01232	-.00126	.00195	.00075	-.00043	-.00028	

RUN NO. 38/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00											
MACH	BETA	CN	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB	
1.200	-19.320	-.06410	.13520	.02340	.16030	.04370	-.01780	-.06390	.13530	.08270	
1.199	-9.700	-.03960	.13680	.02600	.09340	.02450	-.01000	-.03950	.13690	.03710	
1.200	-6.440	-.02940	.13640	.02380	.06450	.01340	-.00670	-.02930	.13650	.03490	
1.200	-4.300	-.02680	.13670	.02300	.04380	.00990	-.00400	-.02670	.13670	.03400	
1.198	-2.110	-.01690	.13410	.02320	.02140	.00470	-.00140	-.01680	.13410	.03120	
1.196	.050	-.01480	.13330	.02430	.00090	.00030	.00110	-.01480	.13330	.04850	
1.195	1.180	-.01690	.13470	.02440	-.01120	-.00200	.00210	-.01690	.13470	.04960	
1.202	2.140	-.01730	.13530	.02320	-.02070	-.00410	.00270	-.01730	.13530	.03090	
1.200	4.420	-.01480	.13540	.02370	-.04550	-.00900	.00570	-.01480	.13540	.03100	
1.202	6.740	-.01840	.13660	.02650	-.06810	-.01430	.00820	-.01830	.13660	.03390	
GRADIENT		.00118	-.00007	.00005	-.01014	-.00214	.00108	.00117	-.00007	-.00031	

(RER007) (25 APR 74)

ARC 66-709 OAS9 OAS11A-IN24 R5 Y6)*STRUT*DUM STNG

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
BOFLAP = -11.700

REFERENCE DATA

SREF = .6033 50.FT. XMRP = 12.6255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 37/ 0 RN/L = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
2.001	-15.130	-.04260	.11650	-.02800	.16910	.04190	-.02020	-.04240	.11660	.02850
2.001	-14.930	-.04870	.11710	-.03240	.17440	.03910	-.01890	-.04840	.11720	.02670
2.001	-11.690	-.03690	.11720	-.03030	.13730	.03240	-.01560	-.03630	.11730	.02690
2.001	-9.530	-.02600	.11710	-.02710	.10960	.02680	-.01290	-.02580	.11720	.02650
2.003	-7.230	-.02130	.11680	-.02460	.07840	.02000	-.00970	-.02110	.11680	.02380
2.003	-6.190	-.02070	.11700	-.02210	.06620	.01720	-.00860	-.02060	.11700	.02360
2.003	-5.040	-.01810	.11740	-.02160	.03400	.01450	-.00700	-.01800	.11740	.02360
2.003	-5.930	-.01780	.11750	-.01890	.04040	.01110	-.00350	-.01760	.11750	.02350
2.003	-2.830	-.01620	.11790	-.01910	.02990	.00840	-.00410	-.01610	.11790	.02330
2.003	-1.760	-.01720	.11730	-.01770	.01700	.00520	-.00250	-.01710	.11730	.02490
2.003	-.850	-.01530	.11750	-.01700	.00790	.00270	-.00120	-.01520	.11750	.02420
2.003	.430	-.01760	.11720	-.01730	-.00300	-.00010	.00040	-.01740	.11730	.02440
2.003	1.460	-.01360	.11760	-.01720	-.01420	-.00270	.00160	-.01350	.11760	.02430
2.000	2.560	-.01700	.11680	-.01790	-.02310	-.00550	.00310	-.01680	.11680	.02460
2.005	3.640	-.01260	.11730	-.01810	-.03740	-.00840	.00460	-.01250	.11730	.02420
1.998	4.770	-.01590	.11660	-.01900	-.03080	-.01160	.00620	-.01180	.11660	.02460
2.005	5.860	-.01220	.11620	-.02000	-.06160	-.01400	.00740	-.01210	.11630	.02430
2.005	6.950	-.01510	.11570	-.02150	-.07650	-.01730	.00880	-.01490	.11570	.02470
	GRADIENT	.00031	-.00010	.00003	-.01036	-.00259	.00134	.00031	-.00010	-.00011

DATE 29 AUG 74

QAS9 TABULATED SOURCE DATA

ARC 66-709 QAS9 0A11A-(N24 RS V8)*STRUT+DUN SYNG

(RECORD) (23 APR 74)

REFERENCE DATA

BREF = .0033 58.FT. XMRP = 12.6255 IN. ALPHA = 10.000 ELEVON = .000
 LREF = .5935 FT. YMRP = .0000 IN. BDFLAP = -11.700
 BREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

RUN NO. 467 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWO	CY	CYN	CYL	CL	CD	CAB
.602	-12.000	.44410	.03270	.04010	.12340	.02320	-.00130	.43060	.11360	.03390
.598	-9.830	.45610	.03020	.04110	.10240	.01680	-.00140	.44280	.11340	.04960
.599	-6.690	.45550	.02990	.04250	.07010	.01180	-.00090	.44230	.11300	.04740
.600	-4.560	.45180	.02990	.04340	.04800	.00750	-.00060	.43870	.11230	.04550
.600	-2.470	.45290	.03090	.4510	.02720	.00360	-.00050	.43950	.11340	.04620
.600	-.370	.45430	.03040	.04610	.00410	-.00020	-.00050	.44100	.11320	.04540
.599	.710	.45350	.03030	.04450	-.00640	-.00200	-.00040	.44020	.11300	.04610
.600	1.700	.45420	.03040	.04390	-.01640	-.00350	-.00100	.44090	.11320	.04480
.600	3.800	.45460	.03050	.04310	-.03700	-.00750	-.00140	.44130	.11340	.04660
.597	5.910	.45920	.02890	.04000	-.05810	-.01140	-.00140	.44220	.11180	.04510
GRADIENT		.00032	.00003	-.00028	-.01023	-.00178	-.00009	.00031	.00009	.00005

RUN NO. 477 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWO	CY	CYN	CYL	CL	CD	CAB
.701	-12.030	.46500	.04230	.03990	.12950	.02220	-.00210	.44910	.12780	.03290
.698	-9.830	.47860	.04080	.03740	.10610	.01740	-.00220	.46300	.12890	.05090
.700	-6.660	.48090	.04150	.03820	.07360	.01060	-.00070	.46490	.13000	.04730
.700	-4.550	.47420	.04600	.04090	.05210	.00630	-.00130	.45750	.13310	.04680
.700	-2.420	.47020	.04550	.04090	.02720	.00240	-.00120	.45370	.13180	.04610
.701	-.310	.47460	.04480	.04220	.00320	-.00050	-.00110	.45610	.13200	.04570
.700	.760	.47460	.04520	.04190	-.00750	-.00180	-.00070	.45610	.13230	.04560
.701	1.790	.47420	.04550	.04110	-.01820	-.00330	-.00060	.45760	.13250	.04530
.701	3.890	.47640	.04400	.03940	-.04130	-.00690	-.00030	.46000	.13150	.04580
.699	5.980	.47710	.04170	.03700	-.06370	-.01090	-.00010	.46110	.12930	.04630
GRADIENT		.00040	-.00018	-.00011	-.01101	-.00132	.00012	.00043	-.00011	-.00014

RUN NO. 487 0 RM/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWO	CY	CYN	CYL	CL	CD	CAB
.700	-12.060	.47170	.04330	.03570	.14210	.02400	-.00590	.45160	.15040	.03310
.601	-9.870	.46410	.04510	.03740	.11920	.01870	-.00480	.46340	.15450	.05310
.601	-6.640	.47880	.04570	.04070	.08240	.01140	-.00320	.45820	.15400	.04890
.707	-4.490	.47810	.06250	.04340	.05450	.00730	-.00030	.45800	.15060	.04700
.600	-2.320	.47670	.06380	.04590	.02800	.00350	.00050	.45840	.15210	.04580
.709	-.210	.47420	.06370	.04560	.00270	.00010	.00060	.45450	.15100	.04620
.600	.860	.47880	.06430	.04640	-.01000	-.00170	.00030	.45840	.15250	.04620
.600	1.880	.47790	.06380	.04540	-.02150	-.00350	.00070	.45760	.15180	.04590
.600	4.070	.47680	.06220	.04220	-.04730	-.00760	.00110	.45690	.15000	.04540
.603	6.150	.46400	.06330	.03910	-.07560	-.01210	.00220	.46330	.15450	.04960
GRADIENT		-.00012	-.00001	-.00009	-.01187	-.00172	.00016	-.00011	-.00004	-.00014

REFERENCE DATA

SREF = .6033 58.FT. XMRP = 12.6235 IN. ALPHA = 10.000 ELEVOM = .000
LREF = .5935 FT. YMRP = .0000 IN. BOFLAP = -11.700
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

RUN NO. 45/ 0 RN/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00											
MACH	BETA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB	
.901	-12.200	.49020	.09840	.02880	.15980	.02570	-.00440	.48300	.16870	.06050	
.995	-9.810	.49690	.09880	.03000	.13220	.01770	-.00350	.46950	.19040	.05660	
.902	-6.600	.49160	.09370	.03170	.08890	.01080	-.00100	.48330	.18430	.04980	
.901	-4.420	.48740	.09140	.03330	.05870	.00630	-.00020	.46160	.18120	.04750	
.900	-2.240	.48780	.08870	.03580	.02810	.00240	.00080	.46250	.17880	.04460	
.901	-.120	.50870	.08850	.02900	.00300	-.00100	.00100	.46300	.18250	.04710	
.902	1.000	.50500	.08820	.02950	-.01260	-.00340	.00120	.47940	.18150	.04420	
.900	2.050	.49790	.08680	.03250	-.02620	-.00550	.00140	.47270	.17870	.04500	
.900	4.190	.49750	.08940	.03380	-.05250	-.00930	.00040	.47170	.18110	.04670	
.901	6.340	.49320	.08660	.03010	-.08440	-.01370	.00200	.46780	.17950	.04870	
GRADIENT		.00155	-.00026	-.00017	-.01291	-.00182	.00009	.00156	.00901	-.00009	

RUN NO. 44/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00											
MACH	BETA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB	
1.199	-12.230	.59720	.12540	-.04770	.12600	.03250	-.00010	.56190	.23800	.05920	
1.201	-9.843	.61120	.12910	-.03500	.10080	.02540	-.00060	.57490	.24450	.05910	
1.199	-6.540	.61430	.12880	-.03650	.06660	.01500	-.00080	.57800	.24470	.05870	
1.200	-4.380	.62030	.12660	-.06140	.04400	.00930	.00040	.58420	.24370	.05850	
1.201	-2.170	.62710	.12890	-.06560	.02080	.00460	.00070	.59050	.24740	.05940	
1.199	-.040	.63230	.12900	-.06710	-.00310	.00070	.00100	.59550	.24850	.05960	
1.199	1.030	.62660	.12940	-.06560	-.01310	-.00170	.00050	.58990	.24780	.05990	
1.198	2.110	.62450	.12930	-.06390	-.02400	-.00400	.00000	.58790	.24720	.05940	
1.202	4.230	.62120	.13000	-.06450	-.04660	-.00900	.00070	.58450	.24720	.05930	
1.201	6.300	.61860	.13110	-.06440	-.06490	-.01450	.00160	.58190	.24760	.06110	
GRADIENT		-.00000	.00034	-.00023	-.01049	-.00209	-.00001	-.00006	.00033	.00009	

RUN NO. 45/ 0 RN/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00											
MACH	BETA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB	
1.996	-12.030	.58490	.10380	-.05420	.13420	.03220	-.00350	.35880	.17360	.02680	
2.007	-9.580	.58300	.10360	-.05320	.10450	.02580	-.00310	.35670	.17500	.02690	
2.005	-6.230	.57530	.10490	-.04880	.06230	.01730	-.00260	.34940	.17240	.02580	
2.001	-4.080	.57400	.10470	-.04750	.03870	.01140	-.00210	.34810	.17230	.02550	
1.999	-1.900	.57680	.10330	-.04770	.01670	.00540	-.00130	.35070	.17340	.02560	
1.999	.280	.57620	.10360	-.04750	-.00060	.00010	.00010	.35010	.17380	.02510	
2.001	1.390	.57840	.10600	-.04780	-.01540	-.00360	.00050	.35210	.17440	.02520	
2.002	2.430	.57870	.10370	-.04840	-.02690	-.00670	.00090	.35250	.17410	.02540	
2.004	4.600	.58020	.10350	-.05010	-.04770	-.01240	.00190	.35490	.17420	.02540	
2.006	6.810	.57950	.10400	-.05130	-.07430	-.01810	.00200	.35360	.17260	.02640	
GRADIENT		.00067	.00010	-.00026	-.00997	-.00275	.00047	.00063	.00022	-.00002	

ARC 66-709 0459 0411A-IN24 R5 V61+STRUT

(RECORD) (25 APR 74)

REFERENCE DATA

SREF = .6053 56-FT. YMRP = 12.6255 IN.
 LREF = .5935 57-FT. YMRP = .0000 IN.
 BREF = 1.3710 FT. YMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 BDFLAP = -11.700

RUN NO. 84/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.800	-4.040	-32850	.07310	.05680	.00270	-.00030	.00030	-.32250	.03610	.05350
.598	-1.950	-21680	.07650	.05590	.00170	-.00020	.00120	-.21610	.08390	.05320
.596	.180	-11700	.07800	.05470	.00130	-.00010	.00120	-.11720	.07770	.05110
.801	2.310	-01520	.07420	.05590	.00040	-.00010	.00010	-.01820	.07590	.05070
.802	4.450	.08920	.06790	.05490	-.00060	.00000	.00140	.08370	.07460	.04820
.801	6.480	.19130	.05650	.05370	-.00080	.00000	.00110	.18370	.07780	.04560
.802	8.700	.30290	.04350	.05290	-.00020	-.00010	.00070	.29260	.06880	.04490
.801	10.910	.44690	.03220	.04810	.00250	.00080	.00160	.43260	.11610	.04480
.599	13.020	.56930	.03820	.03590	.00160	-.00030	.00170	.54610	.16540	.04790
.800	15.220	.68890	.03700	.03180	.00090	-.00070	.00010	.65500	.21650	.05120
GRADIENT		.04891	-.00060	-.00018	-.00037	.00003	.00008	.04756	-.00251	-.00080

RUN NO. 83/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.800	-4.330	-37530	.06230	.07740	.00360	-.00020	.00080	-.36800	.11090	.05740
.800	-2.140	-25290	.08380	.07270	.00200	-.00020	.00070	-.24960	.09320	.05340
.801	.060	-13730	.08380	.07150	.00180	-.00010	.00110	-.13740	.08360	.05270
.803	.370	-11570	.08360	.07080	.00130	-.00010	.00100	-.11630	.08290	.05140
.801	2.590	-.00300	.07940	.06770	.00060	.00000	.00110	-.00660	.07920	.04700
.800	4.720	.11190	.07500	.06530	-.00030	.00000	.00120	.10550	.08200	.04720
.803	6.980	.24660	.06590	.05640	.00010	.00020	.00160	.23680	.09540	.04450
.801	9.180	.37630	.06810	.04960	.00090	-.00030	.00190	.36090	.12530	.04470
.800	11.340	.49180	.06770	.04550	.00090	-.00040	.00250	.46890	.16310	.04700
.800	13.370	.61770	.07120	.03370	.00070	-.00070	.00160	.58370	.21420	.05080
.800	15.810	.74090	.07500	.02580	.00030	-.00090	.00120	.69500	.27210	.05530
.799	GRADIENT	.05364	-.00160	-.00128	-.00042	.00003	.00055	.55213	-.00311	-.00120

RUN NO. 82/ 0 RN/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.897	-4.510	-42110	.09270	.10370	.00300	-.00040	.00060	-.41250	.12560	.05650
.901	-2.380	-28680	.09720	.09510	.00150	-.00030	.00090	-.28240	.10910	.05670
.900	-.190	-14650	.09820	.08130	.00100	-.00020	.00120	-.14620	.09870	.05560
.901	2.020	-.00810	.09440	.06910	.00050	-.00010	.00150	-.01150	.08600	.05200
.900	4.230	.10900	.09360	.06410	-.00050	.00010	.00200	.15160	.10340	.05120
.900	6.460	.23130	.09450	.05900	.00040	-.00020	.00190	.21920	.12000	.04700
.900	10.950	.49990	.09330	.02630	.00150	-.00110	.00260	.47310	.18600	.04820
.896	13.160	.62580	.09710	.01190	.00610	-.00260	.00190	.50740	.23690	.05220
.899	15.470	.75670	.09890	.00070	.00230	-.00200	.00110	.70280	.29720	.05590
GRADIENT		.06117	.00022	-.00481	-.00037	.00003	.00016	.59536	-.00261	-.00070

QASS TABULATED SOURCE DATA

DATE 09 AUG 74

(RER009) (25 APR 74)

ARC 66-709 QASS 0411A (N24 R5 VP) STRUT

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
BOFLAP = -11.700

REFERENCE DATA

SREF = -6033 30.FT. XMRP = 12.6255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 81/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
1.202	-4.670	.1310	.09640	.00100	.00020	.00130	-.33960	.15980	.03340
1.200	-2.020	.13290	.06150	-.00020	-.00020	.00080	-.17970	.13930	.03250
1.202	.010	.13730	.02810	.00000	.00030	.00090	-.04710	.13730	.03460
1.204	.300	.14040	.02290	-.00050	.00000	.00090	-.02320	.14030	.03630
1.199	2.550	.13760	-.00090	.00060	.00010	.00100	.10170	.14240	.03450
1.198	4.780	.13910	-.02570	.00060	.00000	.00090	.22630	.15870	.03720
1.200	7.060	.13640	-.04740	-.00090	.00000	.00130	.37730	.16420	.03760
1.202	9.390	.13250	-.05820	-.00110	.00020	.00200	.49100	.21560	.05920
1.199	11.550	.13000	-.06970	-.00150	.00100	.00210	.61280	.25800	.05990
1.200	13.850	.13160	-.08730	-.00360	.00080	.00270	.73040	.31360	.06450
1.199	16.070	.13000	-.09460	-.00320	.00060	.00150	.83180	.37490	.06560
GRADIENT		.00085	-.01307	-.00017	-.00001	-.00003	.06041	-.00003	.00041

RUN NO. 80/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
1.202	-4.030	.13310	.03770	-.00040	.00060	.00120	-.21660	.14870	.04120
1.200	-2.000	.13330	.02100	-.00100	.00060	.00060	-.12030	.13760	.04170
1.499	.110	.13290	.00190	-.00020	.00070	.00060	-.01950	.13290	.04160
1.500	.500	.13260	-.00190	.00130	.00060	.00070	.00230	.13260	.04180
1.500	2.740	.13120	-.01980	-.00050	.00050	.00060	.10610	.13640	.04240
1.499	4.930	.12870	-.03570	-.00020	.00030	.00070	.20620	.14700	.04360
1.499	7.140	.12670	-.05140	-.00040	.00040	-.00060	.32390	.16830	.04520
1.500	9.410	.12450	-.06190	-.00100	.00020	.00020	.41850	.19550	.04630
1.500	11.650	.12410	-.07480	.00110	-.00030	-.00060	.51290	.23250	.04870
1.499	13.880	.12220	-.09030	-.00050	.00000	.00000	.60830	.27720	.04960
1.499	16.110	.11800	-.10010	-.00150	.00020	.00070	.70330	.33790	.05000
GRADIENT		-.00049	-.00626	.00004	-.00006	-.00005	.04732	-.00016	.00024

DATE 29 AUG 74 OAS9 TABULATED SOURCE DATA

ARC 66-709 OAS9 OALIA-(N24 R5 V8)+STRUT

(IREN009) (29 APR 74)

REFERENCE DATA

SREF = .9933 30.FT. XMRP = 12.8253 IN.
 LREF = .9935 FT. YMRP = .0000 IN.
 BREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 BDFLAP = -11.700

RUN NO. 79/ 0 RN/L = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
1.993	-4.750	-21440	-11780	.00440	.00190	.00110	-.00030	-.20390	.13510	.02180
1.991	-2.580	-13260	.11660	-.00170	.00040	.00080	-.00020	-.12720	.12250	.02250
1.996	-.450	-.04670	.11500	-.01090	-.00020	.00080	-.00010	-.04780	.11540	.02290
1.998	-.030	-.03420	.11480	-.01360	.00120	.00080	-.00010	-.03420	.11480	.02390
1.999	1.740	.03750	.11450	-.02200	.00010	.00070	.00000	.03400	.11560	.02380
1.999	4.210	.12940	.11340	-.03180	-.00020	.00030	.00000	.12080	.12260	.02500
1.999	6.420	.20800	.11100	-.03800	.00010	.00040	-.00010	.19430	.13350	.02570
1.999	8.650	.29740	.10910	-.04370	-.00030	.00020	.00010	.27760	.15270	.02580
1.996	10.830	.35210	.10680	-.04660	-.00060	.00010	.00010	.35520	.17670	.02700
1.996	12.990	.46387	.10430	-.04830	-.00020	.00020	.00020	.42850	.20590	.02740
1.996	15.190	.55070	.10060	-.05150	.00010	.00030	.00030	.50510	.24140	.02810
1.996	GRADIENT	.03862	-.00049	-.00416	-.00020	-.00008	.00004	.03650	-.00143	.00035

ARC 66-709 0459 0411A-(R24 R3 V8)-STREUT

(RER010) (25 APR 74)

REFERENCE DATA

BREF = .6033 50-FT. ZMRP = 12.6255 IN.
LREF = .5935 50-FT. ZMRP = .0000 IN.
BREF = 1.1710 50-FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
BOFLAP = -11.700

RUN NO. 61/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMPW	CY	CYN	CBL	CL	CD	CAB
.600	-15.010	-.09200	.07200	.03310	.15180	.02960	-.02660	-.09260	.07820	.06360
.601	-9.760	-.09400	.07410	.04360	.09490	.01850	-.01610	-.09390	.07430	.03360
.600	-6.390	-.09610	.07480	.05120	.06840	.01260	-.01060	-.09600	.07500	.03250
.601	-4.490	-.09780	.07590	.05360	.04450	.00640	-.00650	-.09760	.07600	.03080
.602	-2.420	-.09820	.07790	.05650	.02380	.00430	-.00330	-.09810	.07800	.03310
.601	-.300	-.09820	.07840	.05730	.00150	.00030	.00030	-.09810	.07850	.03160
.601	.750	-.09430	.07850	.05760	-.00770	-.00150	.00180	-.09620	.07860	.03260
.600	1.790	-.09450	.07720	.05660	-.01670	-.00310	.00320	-.09440	.07730	.03100
.596	3.660	-.09170	.07690	.05620	-.03680	-.00710	.00670	-.09160	.07700	.03260
.600	5.950	-.08770	.07520	.05530	-.01150	-.01110	.01060	-.08760	.07530	.03130
GRADIENT		.00075	.00009	.00026	-.00373	-.00184	.00137	.00072	.00008	.00009

RUN NO. 67/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMPW	CY	CYN	CBL	CL	CD	CAB
.796	-15.080	-.13060	.08590	.04990	.16750	.02600	-.02920	-.13040	.08620	.06990
.799	-9.690	-.12050	.08260	.06110	.10450	.01710	-.01660	-.12030	.08290	.03700
.799	-6.520	-.11870	.08230	.06860	.07090	.01110	-.01080	-.11650	.08250	.03280
.801	-4.390	-.11690	.08270	.06920	.04980	.00760	-.00660	-.11680	.08290	.03240
.802	-2.260	-.11620	.08370	.07200	.02480	.00390	-.00260	-.11600	.08400	.03090
.798	-.140	-.11490	.08350	.07210	.00150	.00010	.00050	-.11470	.08370	.03210
.800	.930	-.11310	.08360	.07230	-.00880	-.00130	.00210	-.11290	.08360	.03190
.801	1.980	-.11310	.08430	.07240	-.01900	-.00280	.00380	-.11300	.08450	.03140
.800	4.110	-.11270	.08260	.07210	-.04610	-.00670	.00760	-.11260	.08300	.03250
.801	6.190	-.10770	.07970	.06870	-.06170	-.00960	.01140	-.10760	.07990	.03190
GRADIENT		.00056	.00004	.00030	-.01108	-.00166	.00166	.00056	.00004	.00003

RUN NO. 66/ 0 RN/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMPW	CY	CYN	CBL	CL	CD	CAB
.902	-19.070	-.14740	.10650	.05390	.19050	.02260	-.03310	-.14710	.10880	.07450
.900	-9.660	-.12530	.10040	.06770	.11960	.01340	-.02040	-.12510	.10070	.06190
.900	-6.490	-.11530	.10010	.07260	.08050	.00820	-.01350	-.11510	.10050	.05340
.900	-4.310	-.10860	.09880	.07580	.05160	.00550	-.00810	-.10840	.09900	.05350
.902	-2.170	-.10380	.10080	.07780	.02900	.00300	-.00370	-.10360	.10100	.05270
.901	-.030	-.10320	.09940	.07910	.00210	.00000	.00040	-.10300	.09960	.05390
.902	1.050	-.09860	.10220	.07710	-.01270	-.00130	.00260	-.09840	.10240	.05260
.900	2.080	-.10350	.09810	.07960	-.02310	-.00260	.00420	-.10340	.09830	.05200
.902	4.210	-.10270	.09610	.07670	-.05120	-.00350	.00910	-.10260	.09830	.05230
.902	6.300	-.10200	.09670	.07440	-.07640	-.00780	.01420	-.10180	.09680	.05350
GRADIENT		.00077	-.00013	.00015	-.01213	-.00130	.00199	.00076	-.00013	-.00014

DATE 29 AUG 74 OAS9 TABULATED SOURCE DATA

(RERO10) (29 APR 74)

ARC 66-709 OAS9 OAS11A-(M24 R3 V8)+STRUT

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
EDFLAP = -11.700

REFERENCE DATA

BREF = .0033 30.FT. XMRP = 12.6253 IN.
LREF = .5033 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 65/ 0 RM/L = 2.52 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CM	CA	CLMPW	CY	CYN	CBL	CL	CD	CAB
1.199	-15.310	-.06610	.13480	.02530	.16140	.04350	-.01740	-.06580	.13490	.06090
1.202	-9.720	-.04340	.13650	.02810	.09450	.02900	-.01030	-.04330	.13660	.05430
1.199	-6.480	-.03400	.13530	.02860	.06140	.01590	-.00650	-.03390	.13530	.05150
1.200	-4.300	-.03000	.13560	.02780	.04150	.01040	-.00400	-.02990	.13560	.04980
1.200	-2.120	-.02630	.13580	.02700	.01920	.00510	-.00170	-.02620	.13580	.04890
1.200	.010	-.02250	.13630	.02670	-.00190	.00050	.00090	-.02250	.13630	.04870
1.199	1.110	-.02180	.13620	.02670	-.01130	-.00170	.00220	-.02180	.13620	.04860
1.200	2.170	-.02370	.13590	.02750	-.02240	.00400	.00360	-.02370	.13600	.04830
1.200	4.350	-.02130	.13660	.02830	-.04650	.00690	.00590	-.02120	.13660	.04820
1.199	6.470	-.02440	.13430	.03080	-.06500	-.01400	.00830	-.02430	.13430	.04930
GRADIENT		.00096	.00006	.00004	-.01005	-.00221	.00115	.00096	.00008	-.00016

RUN NO. 64/ 0 RM/L = 2.44 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CM	CA	CLMPW	CY	CYN	CBL	CL	CD	CAB
1.499	-15.690	-.06530	.12920	-.01020	.19010	.04660	-.02480	-.06500	.12930	.04930
1.499	-10.000	-.03610	.13110	-.00110	.10550	.02810	-.01500	-.03590	.13120	.04590
1.499	-6.680	-.02640	.13250	.00190	.06650	.01820	-.00970	-.02820	.13250	.04390
1.500	-4.550	-.02410	.13320	.00340	.04540	.01210	-.00640	-.02400	.13320	.04280
1.500	-2.340	-.02270	.13350	.00370	.02560	.00640	-.00310	-.02260	.13330	.04180
1.500	-.210	-.01670	.13330	.00360	.00120	.00080	-.00020	-.01860	.13330	.04190
1.500	.920	-.02040	.13290	.00360	-.00860	-.00160	.00130	-.02030	.13300	.04160
1.500	2.010	-.01680	.13350	.00440	-.02030	.00430	.00290	-.01870	.13350	.04210
1.500	4.180	-.01800	.13240	.00370	-.04150	.00970	.00580	-.01790	.13240	.04190
1.500	6.340	-.01970	.13220	.00330	-.06320	.01570	.00900	-.01960	.13220	.04260
GRADIENT		.00072	-.00007	.00005	-.00997	-.00249	.00139	.00072	-.00007	-.00010

RUN NO. 63/ 0 RM/L = 2.43 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CM	CA	CLMPW	CY	CYN	CBL	CL	CD	CAB
1.994	-15.150	-.05910	.11750	-.03580	.19250	.04220	-.02030	-.05870	.11770	.02770
1.997	-9.530	-.03500	.11760	-.02710	.10650	.02680	-.01260	-.03260	.11760	.02610
1.997	-6.240	-.02500	.11740	-.02150	.06400	.01780	-.00850	-.02490	.11740	.02460
1.997	-4.000	-.02320	.11740	-.01930	.03850	.01170	-.00540	-.02310	.11740	.02400
1.997	-1.630	-.02080	.11740	-.01640	.01670	.00560	-.00260	-.02070	.11750	.02320
1.997	.340	-.01940	.11670	-.01590	-.00450	.00030	.00040	-.01930	.11670	.02270
1.997	1.370	-.01810	.11700	-.01520	-.01600	.00250	.00190	-.01900	.11710	.02300
2.002	2.530	-.01810	.11780	-.01580	-.02700	.00540	.00320	-.01800	.11760	.02270
1.997	4.730	-.01770	.11660	-.01650	-.05120	.01110	.00620	-.01760	.11660	.02330
1.994	6.850	-.01840	.11740	-.01930	-.07430	.01720	.00890	-.01750	.11750	.02470
GRADIENT		.00063	-.00006	.00013	-.01023	-.00261	.00133	.00063	-.00006	-.00009

(HERO11) (25 APR 74)

ARC 66-709 0459 0411A-(M24 R5 V8)-STRUT

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
SCFLAP = -11.700

REFERENCE DATA

REF = .0033 50.FT. YMRP = 12.8235 IN.
LREF = .3935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0130

RUN NO. 62/ 0 RM/L = 2.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.600	-4.610	.45140	.02830	.04760	.04760	.00760	-.00070	.43630	.11070	.04350
.599	-2.570	.45020	.02960	.04900	.02830	.00360	-.00080	.43720	.11170	.04380
.601	-3.380	.44700	.02900	.04770	.00330	-.00060	-.00040	.43410	.11030	.04460
.601	.620	.44680	.02910	.04690	-.00320	-.00220	-.00100	.43360	.11060	.04480
.601	1.610	.44720	.02820	.04740	-.01470	-.00380	-.00030	.43440	.10980	.04310
.601	3.60	.44510	.02760	.04380	-.03660	-.00800	-.00160	.43250	.10890	.04480
.600	-	.44490	.02810	.04080	-.03760	-.01180	-.00080	.43220	.10910	.04670
.599	7.900	.44800	.02960	.03920	-.07730	-.01390	-.00980	.43300	.11090	.04940
.600	11.130	.44150	.03230	.03660	-.11020	-.02230	-.00930	.42810	.11230	.03570
.602	16.320	.42760	.04170	.02990	-.13570	-.03170	-.00960	.41260	.11910	.06860
GRADIENT		-.00076	-.00010	-.00028	-.01006	-.00186	-.00029	-.00072	-.00023	.00009

RUN NO. 61/ 0 RM/L = 2.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.701	-4.330	.47020	.04760	.04160	.05080	.00640	-.00160	.45320	.13400	.04600
.701	-2.390	.46860	.04480	.04250	.02390	.00230	-.00090	.45020	.13060	.04490
.699	-3.40	.46900	.04460	.04360	.00360	-.00040	-.00070	.43260	.13080	.04320
.700	.760	.46580	.04430	.04230	-.00710	-.00160	-.00030	.44950	.12980	.04490
.700	1.820	.46770	.04380	.04210	-.01920	-.00330	-.00010	.45150	.12970	.04470
.699	3.920	.46900	.04300	.04130	-.04080	-.00740	-.00030	.45290	.12910	.04320
.699	6.040	.46930	.04180	.03900	-.06180	-.01100	-.00030	.45360	.12800	.04670
.700	8.130	.47010	.04140	.03420	-.08480	-.01510	.00170	.45430	.12770	.04960
.699	11.340	.45290	.04270	.03610	-.11540	-.02130	.00160	.43720	.12560	.03690
.701	16.800	.43580	.04930	.03230	-.16930	-.03370	.00270	.41930	.12890	.07120
GRADIENT		-.00011	-.00049	-.00005	-.01079	-.00137	.00017	-.00002	-.00032	-.00009

RUN NO. 60/ 0 RM/L = 2.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.600	-4.490	.47980	.06470	.04240	.05330	.00720	-.00130	.45920	.13330	.04630
.600	-2.360	.47830	.06600	.04340	.02800	.00350	.00030	.45730	.13430	.04530
.602	-2.250	.47280	.06420	.04600	.00190	-.00020	.00080	.45250	.13140	.04270
.600	.830	.47070	.06400	.04550	-.01060	-.00190	.00040	.45030	.13070	.04340
.799	1.920	.47330	.06310	.04540	-.02180	-.00340	.00050	.45320	.13040	.04370
.799	4.090	.47080	.06280	.04250	-.04860	-.00600	.00160	.45090	.14930	.04420
.800	6.180	.47200	.06400	.03930	-.07110	-.01200	.00300	.45260	.15110	.04480
.799	8.390	.47330	.06480	.03560	-.09790	-.01680	.00490	.45290	.15170	.04840
.601	11.360	.48460	.06930	.03360	-.13400	-.02480	.00870	.44430	.15060	.03390
.603	16.870	.43200	.06740	.03520	-.19030	-.03880	.00940	.41200	.14630	.06930
GRADIENT		-.00113	-.00033	.00003	-.01200	-.00173	.00027	-.00103	-.00036	-.00029

DATE 20 AUG 74

QAS9 TABULATED SOURCE DATA

(RECORD) (25 APR 74

AEC 66-709 QAS9 QAS11A-(ME4 RS V8)-STRUT

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
80CLAP = -11.700

REFERENCE DATA

REF = .0033 50-FT. YMEP = 12.0233 IM.
REF = .0033 50-FT. YMEP = .0000 IM.
REF = 1.1710 FT. ZMEP = -.3750 IM.
SCALE = .0130

RUN NO. 99/ 0 RM/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACN	BETA	CM	CA	CLMFO	CY	CYM	CBL	CL	CD	CAB
.000	-4.410	.49970	.09340	.02820	.03970	.00400	-.00060	.47320	.18380	.04970
.001	-2.280	.50200	.09090	.02690	.03140	.00220	-.00510	.47600	.18370	.04720
.004	-.120	.48880	.08880	.03640	.00110	-.00120	.00050	.46340	.17900	.04800
.000	1.020	.49920	.09740	.02910	-.01180	-.00360	.00110	.47330	.18260	.04790
.009	2.100	.50310	.08920	.02970	-.02640	-.00340	.00570	.47730	.18230	.04680
.008	4.230	.51060	.08100	.02370	-.03570	-.00940	.00550	.48440	.18530	.04770
.002	6.400	.50190	.09190	.02400	-.08400	-.01360	.00230	.47330	.18430	.04710
.006	8.540	.48890	.09170	.02790	-.11270	-.01820	.00290	.46400	.18200	.03010
.000	11.780	.47430	.08360	.02770	-.14730	-.02790	.00430	.44840	.18090	.03460
.009	17.170	.42930	.09750	.02930	-.21170	-.04320	.00790	.39980	.17480	.06930
GRADIENT		.00101	-.00030	-.00030	-.01326	-.00177	.00015	.00105	-.00010	-.00021

RUN NO. 98/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACN	BETA	CM	CA	CLMFO	CY	CYM	CBL	CL	CD	CAB
1.203	-4.370	.62400	.12830	-.06330	.04370	.00930	.00020	.58740	.24660	.03610
1.202	-2.210	.62820	.13000	-.06640	.02060	.00420	.00000	.59120	.24910	.03760
1.200	-.010	.63040	.13120	-.06990	-.00310	.00050	.00140	.59310	.25070	.03670
1.201	1.030	.62620	.13020	-.06740	-.01360	-.00160	.00570	.58920	.24880	.03660
1.201	2.170	.62320	.13010	-.06730	-.02490	-.00420	.00590	.58820	.24830	.03730
1.201	4.360	.61600	.12930	-.06610	-.04650	-.00940	.00570	.58030	.24590	.03630
1.201	6.470	.61370	.12920	-.06390	-.06620	-.01490	.00170	.57720	.24520	.03620
1.201	8.710	.61000	.12810	-.06140	-.08470	-.02250	.00110	.57390	.24320	.03590
1.203	9.760	.60880	.12730	-.06020	-.09610	-.02350	.00590	.57060	.24200	.03460
1.201	11.980	.59830	.12450	-.05810	-.12190	-.03350	-.00020	.56320	.23730	.03540
1.199	17.500	.57610	.12120	-.05170	-.20010	-.05340	-.00120	.54420	.22970	.03870
GRADIENT		-.00076	.00010	-.00031	-.01036	-.00209	.00009	-.00171	-.00008	.00003

RUN NO. 97/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACN	BETA	CM	CA	CLMFO	CY	CYM	CBL	CL	CD	CAB
1.301	-4.390	.52370	.12350	-.07030	.04770	.01190	-.00300	.49240	.22160	.04710
1.300	-2.410	.52400	.12470	-.07020	.02370	.00340	-.00190	.49130	.22260	.04830
1.300	-.240	.52430	.12540	-.07130	.00190	.00000	.00060	.49070	.22310	.04930
1.301	.910	.52280	.12310	-.07140	-.00880	-.00260	.00180	.48940	.22290	.04890
1.302	1.990	.52040	.12430	-.06980	-.02130	-.00330	.00250	.48710	.22120	.04780
1.302	4.200	.51640	.12220	-.06960	-.04270	-.01160	.00410	.48370	.21830	.04390
1.302	6.390	.51360	.12090	-.06830	-.06290	-.01940	.00420	.48310	.21600	.04330
1.302	8.630	.51200	.11910	-.06630	-.08630	-.02660	.00430	.48080	.21450	.04490
1.302	11.900	.51240	.11540	-.06890	-.13070	-.03610	.00380	.48110	.21070	.04300
1.302	17.610	.48590	.11320	-.06940	-.21610	-.05370	.00490	.46310	.20710	.03090
GRADIENT		-.00102	-.00011	.00004	-.01033	-.00262	.00083	-.00096	-.00034	-.00012

ALPHA = 10.000 ELEVOM = .000
 BDCLAP = -11.700

PARAMETRIC DATA

REFERENCE DATA

REF = .0033 50-FT. TMRP = 12.8235 IN.
 LREF = .3435 FT. TMRP = .0000 IN.
 REF = 1.1710 FT. TMRP = -.3750 IN.
 SCALE = .0150

RUN NO. 56/ 0 RM/L = 2.45 GRADIENT INTERVAL = -3.00/ 3.00

MACH	BETA	CM	CA	CLMPD	CV	CYN	CBL	CL	CD	CAB
2.000	-4.090	.37710	.10640	-.04860	.03910	.01130	-.00210	.35080	.17460	.02690
2.000	-1.990	.37490	.10620	-.04810	.01630	.00330	-.00120	.34870	.17400	.02710
2.000	.090	.37430	.10640	-.04820	-.00270	-.00020	-.00020	.34820	.17410	.02710
2.000	1.270	.37420	.10660	-.04900	-.01310	-.00330	.00040	.34790	.17420	.02730
1.999	2.290	.37500	.10660	-.04890	-.02330	-.00630	.00100	.34670	.17430	.02730
2.000	4.310	.37580	.10370	-.04960	-.04820	-.01260	.00200	.34960	.17350	.02710
2.000	6.690	.37570	.10490	-.05210	-.07330	-.01800	.00230	.34970	.17260	.02690
2.000	9.010	.37770	.10430	-.05370	-.10230	-.02400	.00290	.35180	.17250	.02770
2.000	11.270	.37940	.10320	-.05710	-.13010	-.03030	.00340	.35370	.17170	.02760
2.000	12.410	.37680	.10280	-.05670	-.14330	-.03360	.00370	.35320	.17120	.02810
2.003	16.020	.35940	.10300	-.05890	-.23790	-.04640	.00460	.33410	.16760	.03090
	GRADIENT	-.00013	-.00004	-.00014	-.01006	-.00279	.00048	-.00013	-.00008	.00003

ARC 66-709 OASB OALIA-(R3 V0)-STRUT

(IRERG12) (23 APR 74)

REFERENCE DATA

REF = .0033 50.FT. INMP = 12.6235 IN.
 LREF = .0033 50.FT. VREF = .0000 IN.
 REF = 1.1710 FT. WREF = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 SCFLAP = -11.700

RUN NO. 94/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.798	-4.140	-3.1836	.07230	.05816	.00100	-.00030	.00060	-.31220	.03520	.03240
.791	-2.080	-.21430	.07730	.03400	-.00020	-.00020	.00030	-.21140	.08500	.05060
.780	-.180	-.10370	.07800	.05280	-.00090	-.00030	.00070	-.10590	.07770	.05780
.690	2.240	-.00710	.07530	.05310	-.00190	-.00030	.00070	-.01050	.07490	.04630
.680	4.360	.09640	.06750	.05290	-.00160	-.00020	.00100	.09100	.07480	.04510
.601	6.530	.20100	.03680	.05090	-.00110	-.00030	.00080	.19730	.07970	.04320
.601	8.660	.31110	.04310	.05160	-.00030	-.00030	.00020	.30110	.08950	.04200
.601	10.870	.44100	.03080	.04660	.00170	-.00110	.00100	.42730	.11340	.04260
.602	12.800	.56300	.03730	.03480	.00000	-.00040	.05130	.54030	.16290	.04580
.601	15.160	.68020	.03650	.03130	.00070	-.00080	-.00010	.64890	.21310	.04870
GRADIENT		.04862	-.00054	-.00034	-.00035	.00000	.00005	.04727	-.00241	-.00088

RUN NO. 93/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.798	-4.300	-.33900	.07710	.06410	.00270	-.00010	.00090	-.33230	.10230	.03370
.791	-2.160	-.22560	.07960	.06010	.00140	-.00010	.00030	-.22030	.08800	.03070
.780	.010	-.11870	.06050	.05870	.00030	-.00020	.00090	-.11670	.08030	.04840
.690	2.200	-.00920	.07700	.05840	.00020	-.00010	.00110	-.01220	.07630	.04720
.790	4.340	.09740	.07040	.05730	-.05110	-.00010	.00130	.09170	.07760	.04540
.701	6.510	.21410	.05930	.05360	-.00110	-.00010	.00070	.20660	.08320	.04230
.701	8.770	.33350	.04650	.05240	.00030	-.00030	.00080	.32270	.09640	.04090
.701	10.890	.46230	.04690	.04300	.00210	-.00110	.00110	.44510	.13330	.04340
.702	13.050	.57710	.04980	.03870	-.00030	-.00060	.00200	.55100	.17880	.04570
.700	15.250	.68740	.05000	.03670	.00140	-.00090	-.00130	.63010	.22900	.03050
GRADIENT		.05024	-.00074	-.00071	-.00041	.00000	.00005	.04881	-.00281	-.00093

RUN NO. 92/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.749	-4.400	-.35000	.07960	.06930	.00400	.00000	.00100	-.34290	.10620	.03330
.792	-2.280	-.23200	.08290	.06360	.00770	-.00010	.00110	-.22860	.09180	.03100
.749	-.030	-.12030	.08290	.06220	.00220	.00000	.00140	-.12030	.08290	.04930
.791	2.170	-.01120	.08000	.06150	.00130	.00000	.00130	-.01420	.07930	.04730
.791	4.290	.10030	.07240	.05900	-.00010	-.00010	.00130	.03480	.07980	.04410
.790	6.900	.22380	.06180	.05670	.00210	.00020	.00140	.21540	.08670	.04300
.792	8.770	.36020	.05320	.04750	.00290	.00020	.00200	.34780	.10750	.04140
.791	10.910	.46030	.05670	.04320	.00290	-.00040	.00130	.44910	.14430	.04340
.790	13.090	.58730	.05910	.03630	.00020	-.00020	.00300	.59860	.19060	.04680
.790	15.320	.70260	.06030	.03360	.00210	-.00090	-.00020	.66160	.24400	.03100
GRADIENT		.05158	-.00078	-.00116	-.00033	-.00000	.00006	.09011	-.00390	-.00102

DATE 80 AUG 74 QASO TABULATED SOURCE DATA

ARC 86-709 QASO CALLA-(RS V8)-STRUT

(XEROX) (23 APR 74)

REFERENCE DATA

BREF = .0033 36 FT. XMRP = 12.8235 IN.
 LREF = .3933 FT. YMRP = .0000 IN.
 BREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0190

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 BOFLAP = -11.700

RUN NO. 91/ 0 RM/L = 2.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CM	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.000	-4.330	-37370	.06310	.07740	.00310	.00000	.00000	-.36000	-.11230	-.05320
.001	-2.290	-24280	.06300	.07230	.00320	.00000	.00140	-.23920	.00140	.03130
.000	-.120	-13350	.06350	.06620	.00230	.00010	.00130	-.13330	.08500	.04970
.000	2.090	-11180	.06070	.06660	.00170	.00010	.00120	-.01470	.08020	.04800
.790	4.270	-10460	.07370	.06280	.00230	.00020	.00140	-.09670	.08320	.04430
.001	6.410	-23480	.06740	.06430	.00270	.00040	.00180	.22570	.09330	.04300
.001	8.080	-33360	.06670	.04730	.00440	.00020	.00190	.33930	.11930	.04230
.002	10.860	-46660	.06760	.04330	.00530	.00000	.00240	.44560	.15430	.04350
.001	13.030	-50330	.07270	.03360	.00310	.00040	.00210	.53190	.20230	.04630
.071	15.300	-70960	.07430	.02850	.00390	.00080	.00230	.66490	.25090	.03360
GRADIENT		.09411	-.00087	-.00160	-.00032	.00001	.00003	.05237	-.00331	.06123

RUN NO. 90/ 0 RM/L = 2.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CM	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.030	-4.600	-39700	.09020	.09100	.00300	.00000	.00110	-.36830	.12170	.05720
.000	-2.370	-26340	.08940	.08320	.00360	.00000	.00110	-.25931	.10030	.03290
.001	-.210	-13610	.09030	.07730	.00130	.00010	.00130	-.13780	.09100	.05090
.001	2.280	-10170	.08600	.07290	.00240	.00000	.00140	-.02030	.08330	.04750
.001	4.230	-11130	.08180	.06340	.00200	.00030	.00120	.10600	.08990	.04490
.001	6.390	-23260	.08030	.03670	.00270	.00040	.00260	.22220	.10370	.04400
.000	8.650	-34830	.07990	.03330	.00390	.00020	.00180	.33240	.13140	.04400
.000	10.830	-46640	.07940	.04610	.00430	.00020	.00200	.44510	.16610	.04310
.000	13.010	-58240	.06740	.03290	.00490	.00100	.00260	.54780	.21630	.04970
.000	15.280	-71330	.06740	.02360	.00260	.00090	.00180	.66707	.27270	.03420
GRADIENT		.09736	-.00092	-.00279	-.00033	.00003	.00002	.05370	-.00336	-.00136

RUN NO. 99/ 0 RM/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CM	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.001	-4.600	-41330	.119700	.10630	.00360	.00010	.00100	-.40600	.13060	.05800
.000	-2.440	-26670	.10000	.09280	.00380	.00010	.00130	-.26420	.11140	.03350
.002	-.210	-12420	.09830	.07710	.00250	.00010	.00150	-.12380	.09880	.03200
.002	2.640	-101020	.09920	.06590	.00230	.00030	.00200	.00670	.09930	.04920
.000	4.220	-13180	.09760	.05960	.00230	.00060	.00250	.12435	.10710	.04690
.001	6.430	-24710	.09370	.03370	.00310	.00010	.00250	.23490	.12180	.04370
.000	8.630	-37760	.09120	.03900	.00390	.00020	.00240	.33960	.14680	.04000
.000	10.800	-50210	.09380	.02230	.00460	.00020	.00270	.47530	.18190	.04620
.000	13.010	-61730	.08430	.01120	.00490	.00020	.00220	.57460	.23330	.04990
.001	15.300	-73260	.10000	-.00340	.00420	.00010	.00190	.69960	.29300	.03610
GRADIENT		.06139	.00002	-.00340	-.00036	.00005	.00017	.05972	-.00263	-.00110

ARC 66-709 OAS9 0A11A-(R3 V8)*STRUT

(RER012) (23 APR 74)

REFERENCE DATA

SREF = .6033 SA.FT. IMRP = 12.6255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVON = .000
BOFLAP = -11.700

RUN NO. 88/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFW	CY	CYN	CBL	CL	CD	CAB
.932	-4.670	-.39150	.11040	.10480	.00610	.00030	.00140	-.38120	.14190	.05980
.948	-2.440	-.23795	.11040	.07670	.00460	.00030	.00170	-.23300	.12040	.05500
.951	-.240	-.07370	.11560	.04490	.00360	.00020	.00160	-.07320	.11590	.05830
.950	2.080	.07500	.11090	.02770	.00280	.00000	.00180	.07090	.11360	.05230
.948	4.370	.21330	.10890	.01070	.00290	.00020	.00200	.20440	.12490	.05120
.951	6.580	.35170	.11280	-.00430	.00240	.00100	.00260	.33650	.15240	.05060
.950	8.700	.45670	.10810	-.05810	.00340	.00190	.00300	.43500	.17600	.05300
.951	10.930	.58710	.10810	-.02050	.00400	.00120	.00200	.55600	.21740	.05500
.951	13.130	.71450	.11420	-.03660	.00650	.00110	.00180	.66990	.27350	.06120
.952	15.390	.84530	.11500	-.04770	.00840	.00150	.00060	.78440	.33520	.06500
GRADIENT		.06734	-.00012	-.01048	-.00036	-.00002	.00006	.06525	-.00178	-.00087

RUN NO. 87/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFW	CY	CYN	CBL	CL	CD	CAB
1.501	-4.600	-.32870	.13210	.09360	.00230	.00040	.00220	-.31510	.15790	.05300
1.502	-2.350	-.17810	.13480	.05950	.00300	.00040	.00140	-.17240	.14200	.05820
1.502	-.130	-.03860	.13900	.02840	.00260	.00040	.00120	-.03620	.13910	.05400
1.502	2.070	.09960	.13970	-.00020	.00280	.00020	.00120	.09450	.14320	.05400
1.502	4.320	.23190	.14020	-.02480	.00330	.00020	.00120	.22060	.15730	.05590
1.502	6.670	.37150	.14000	-.04690	.00400	.00030	.00130	.35270	.18210	.05850
1.508	8.870	.49380	.13320	-.05630	.00230	.00020	.00140	.46730	.20780	.05810
1.508	11.080	.62090	.13130	-.06760	.00090	.00100	.00230	.58410	.24810	.06010
1.500	13.360	.75920	.13190	-.08430	.00040	.00080	.00310	.70820	.30370	.06300
1.501	15.570	.87470	.13310	-.09560	.00040	.00110	.00260	.80690	.36300	.06860
GRADIENT		.06266	.00095	-.01328	.00008	-.00003	-.00009	.06012	-.00000	.00034

RUN NO. 86/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFW	CY	CYN	CBL	CL	CD	CAB
1.499	-4.350	-.23110	.13210	.04010	.00260	.00110	.00140	-.22040	.14930	.03870
1.500	-2.050	-.11440	.13270	.01980	.00160	.00100	.00110	-.10960	.13670	.03940
1.501	.110	-.00370	.13280	.00000	.00280	.00100	.00100	-.00600	.13280	.04030
1.499	.500	.01420	.13290	-.00340	.00170	.00090	.00130	.01300	.13300	.04050
1.499	2.890	.11860	.13190	-.02120	.00170	.00080	.00090	.11230	.13730	.04190
1.498	4.930	.22890	.12920	-.03780	.00220	.00090	.00070	.21690	.14840	.04290
1.498	7.220	.34460	.12680	-.05210	.00220	.00090	.00030	.32590	.16910	.04480
1.498	9.400	.44830	.12570	-.06310	.00170	.00080	.00040	.41980	.19690	.04740
1.497	11.600	.54950	.12530	-.07480	.00430	.00010	-.00060	.51310	.23330	.04970
1.496	13.970	.66680	.12520	-.08980	.00340	.00040	.00010	.61740	.28060	.05020
1.496	16.080	.76740	.11920	-.10030	.00170	.00070	.00110	.70450	.32690	.05010
GRADIENT		.04949	-.00028	-.00845	-.00003	-.00003	-.00007	.04706	-.00006	.00047

DATE 29 AUG 74 OAS9 TABULATED SOURCE DATA

(HER012) (25 APR 74)

ARC 66-709 OAS9 QALIA-(RS VS)*STRUT

PARAMETRIC DATA

BETA = .000 ELEVON = .000
BDCLAP = -11.700

REFERENCE DATA

SRFP = .0033 SQ.FT. XMRP = 12.6255 IN.
LREF = .9933 FT. YMRP = .0000 IN.
SRFP = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 85/ 0 RN/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFD	CY	CYN	CBL	CL	CD	CAB
1.997	-4.840	-20910	.11510	.00400	.00610	.00140	.00000	-.19850	.13330	.02150
2.003	-8.700	-13060	.11750	-.00240	.00470	.00130	.00000	-.12310	.12350	.02200
2.002	-.950	-.04670	.11700	-.01060	.00410	.00110	.00000	-.04960	.11740	.02290
1.999	1.690	.03620	.11540	-.02100	.00360	.00100	.00020	.03270	.11640	.02420
1.999	3.890	.12130	.11460	-.03080	.00320	.00100	.00020	.11330	.12260	.02520
1.996	6.040	.20250	.11250	-.03610	.00230	.00080	.00010	.18960	.13320	.02610
1.996	8.170	.28450	.11060	-.04360	.00230	.00080	.00030	.26590	.14990	.02660
1.999	10.360	.36480	.10640	-.04650	.00180	.00060	.00030	.33930	.17220	.02700
1.999	12.610	.43020	.10510	-.04830	.00230	.00040	.00040	.41640	.20090	.02750
1.999	14.680	.53600	.10140	-.05130	.00300	.00040	.00070	.49200	.23570	.02760
GRADIENT		.03789	-.00024	-.00404	-.00032	-.00005	.00003	.03376	-.00129	.00044

DATE 29 AUG 74

0439 TABULATED SOURCE DATA

ARC 66-709 0439 0411A-(R3 V6)*STRUT

(RER013) 1 25 APR 74

REFERENCE DATA

SREF = -6033 50-FT. XMRP = 12.6255 IN.
 LREF = -5935 FT. YMRP = -0500 IN.
 BRP = 1.1710 FT. ZMRP = -3750 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVON = 19.000
 BDFLAP = -11.700

RUN NO. 115/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.600	-3.910	.00190	.10500	-.10110	-.00090	.00030	.00190	.00910	.10460	.06500
.601	-1.790	.10000	.19770	-.10140	-.00040	.00020	.00210	.10330	.10450	.06280
.601	.370	.20270	.10730	-.10070	-.00090	.00010	.00200	.20200	.10870	.05950
.601	2.480	.29570	.10140	-.10080	-.00210	.00010	.00190	.29510	.11420	.05710
.601	4.590	.39820	.09090	-.09090	-.00190	.00000	.00230	.38970	.12250	.05340
.600	6.760	.51350	.08050	-.10110	-.00390	.00000	.00240	.50050	.13990	.05210
.599	8.940	.65320	.06930	-.11270	-.00300	-.00010	.00220	.63670	.16930	.05200
.600	11.190	.80230	.06010	-.12480	-.00170	-.00020	.00240	.77540	.21470	.05260
.601	13.370	.88970	.06810	-.11940	-.00200	-.00030	.00190	.84980	.27190	.05550
.601	15.390	.97480	.07440	-.11210	-.00320	-.00030	.00220	.91690	.33370	.05920
GRADIENT		.04670	-.00162	.00042	-.00034	-.00003	.00003	.04485	.00214	-.00136

RUN NO. 114/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.600	-4.040	-.03940	.10780	-.09280	.00000	.00030	.00190	-.03170	.11040	.06650
.600	-1.910	.07960	.11140	-.09220	.00040	.00020	.00220	.06320	.10870	.06250
.600	.290	.18660	.11090	-.09630	-.00120	.00010	.00250	.18610	.11180	.05990
.700	2.410	.29200	.10540	-.09900	-.00220	.00020	.00230	.28730	.11780	.03720
.701	4.620	.40720	.09640	-.09940	-.00180	.00000	.00240	.39610	.12890	.03290
.699	6.800	.53150	.08430	-.10760	-.00230	.00000	.00260	.51780	.14660	.03270
.701	9.050	.64620	.07630	-.12450	-.00320	.00000	.00240	.65560	.18340	.03200
.700	11.190	.75900	.08420	-.11580	-.00140	.00000	.00230	.72830	.22950	.03550
.700	13.420	.88020	.08490	-.11760	-.00340	-.00020	.00340	.81640	.28690	.03630
.697	15.610	.97560	.08690	-.10800	-.00090	-.00070	-.00100	.91620	.34630	.06140
GRADIENT		.05109	-.00133	-.00092	-.00029	-.00003	.00003	.04915	.00212	-.00150

RUN NO. 113/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.600	-4.250	-.10110	.11440	-.07070	.00060	.00040	.00220	-.09230	.12160	.06680
.601	-2.020	.03320	.11680	-.07820	-.00010	.00020	.00210	.03930	.11550	.06290
.601	.150	.15940	.11760	-.08550	-.00030	.00010	.00280	.15910	.11800	.06030
.601	2.370	.27940	.11300	-.09320	-.00130	.00010	.00290	.27450	.12440	.05780
.600	4.570	.41430	.10530	-.10460	-.00190	.00010	.00300	.40480	.13800	.05430
.601	6.770	.55660	.10090	-.11920	-.00330	.00030	.00380	.54080	.16580	.05320
.600	8.990	.63460	.10360	-.11210	-.00230	-.00010	.00320	.61060	.20150	.05330
.600	11.090	.74750	.10350	-.11310	-.00280	.00000	.00350	.71160	.24540	.05500
.601	13.260	.85690	.11290	-.12300	-.00240	-.00020	.00520	.80820	.30650	.05980
.600	15.540	.99520	.11230	-.12890	-.00200	-.00030	.00260	.92870	.37490	.06350
GRADIENT		.05768	-.00100	-.00385	-.00028	-.00003	.00011	.05379	.00189	-.00137

ARC 68-709 OAS9 0A11A-(HS V6)*STRUT

(RER013) (25 APR 74)

REFERENCE DATA

BREF = .0033 90.FT. TMRP = 12.6235 IN.
LREF = .5935 FT. TMRP = .0000 IN.
BREF = 1.1710 FT. TMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
BDFLAP = -11.700

RUN NO. 112/ 0 RM/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.900	-4.430	-1.16000	.12770	-.04790	.00030	.00110	.00170	-.14960	.13970	.06710
.903	-2.210	-.00990	.13090	-.06910	-.00020	.00060	.00220	-.00480	.13120	.06650
.902	.000	.13440	.13510	-.08710	-.00030	.00060	.00220	.13440	.13510	.06410
.901	2.280	.27860	.13490	-.10230	-.00070	.00040	.00260	.27300	.14590	.06220
.902	4.470	.42240	.13590	-.12120	-.00350	.00080	.00300	.41050	.16840	.05990
.901	6.720	.55230	.12470	-.13100	-.00290	.00000	.00310	.53340	.19240	.05690
.899	8.920	.67360	.12610	.13960	-.00420	.00060	.00360	.64560	.23090	.05700
.902	11.100	.77200	.13200	-.14040	-.00280	.00020	.00340	.73210	.27820	.06010
.901	13.340	.86010	.13830	-.15010	-.00150	-.00030	.00210	.82440	.33760	.06240
.900	15.530	1.00900	.11150	-.15840	-.00300	-.00010	.00180	.93460	.40660	.06660
GRADIENT		.06920	.00091	-.00896	-.00076	-.00004	.00013	.06272	.00323	-.00084

RUN NO. 111/ 0 RM/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
1.198	-4.590	-.17230	.15970	-.02220	.00000	.00130	.00130	-.15910	.17290	.06220
1.202	-2.310	-.03010	.16150	-.05690	.00140	.00080	.00110	-.02350	.16260	.06080
1.202	-.110	.11210	.16540	-.06800	.00200	.00060	.00150	.11240	.16320	.06060
1.199	2.290	.25720	.16640	-.11830	.00030	.00070	.00150	.25030	.17630	.05950
1.198	4.520	.39850	.16930	-.14530	-.00130	.00030	.00150	.38190	.20000	.06230
1.202	6.730	.53110	.17130	-.16700	-.00200	.00030	.00140	.50740	.23240	.06420
1.199	9.090	.67220	.16840	-.18430	-.00120	.00040	.00170	.63710	.27240	.06500
1.200	11.310	.80660	.16960	-.19900	-.00180	.00040	.00150	.73770	.32480	.06780
1.200	13.580	.94070	.17220	-.20960	-.00180	.00040	.00220	.87400	.38830	.07050
1.199	15.850	1.05500	.17180	-.21080	-.00220	.00080	.00180	.96750	.45330	.07110
GRADIENT		.06265	.00106	-.01347	-.00017	-.00009	.00004	.05961	.00301	-.00005

RUN NO. 110/ 0 RM/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
1.300	-4.330	-.13060	.15080	-.03450	.00180	.00160	.00150	-.11680	.16020	.04480
1.300	-2.140	-.02320	.15190	-.05480	.00180	.00120	.00110	-.01750	.15260	.04450
1.300	.110	.08630	.15200	-.07370	.00110	.00120	.00120	.08600	.15210	.04400
1.498	2.270	.19200	.15160	-.09030	.00110	.00120	.00090	.18590	.15910	.04440
1.499	4.580	.30330	.15080	-.10790	.00060	.0010	.00080	.29030	.17450	.04500
1.499	6.710	.40930	.14990	-.12340	.00040	.00090	.00070	.38890	.19670	.04630
1.502	8.970	.51930	.15090	-.13880	-.00010	.00070	.00080	.48940	.23000	.04920
1.501	11.230	.62980	.13340	-.15370	-.00070	.00060	.00060	.58790	.27310	.05160
1.500	13.460	.73540	.15400	-.16820	.00010	.00010	.00100	.67930	.32990	.05370
1.501	15.750	.84830	.15270	-.18240	-.00110	.00040	.00120	.77500	.37720	.05460
GRADIENT		.04872	-.00001	-.00820	-.00012	-.00004	-.00007	.04595	.00159	-.00001

(RER013) (25 APR 74)

ARC 66-709 OAS9 0A11A-(R5 V8)+STRUT

PARAMETRIC DATA

BETA = .000 ELEVOM = 19.000
BCFLAP = -11.700

REFERENCE DATA

SREF = .6033 58.FT. YMRP = 12.6255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 109/ 0 RN/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.50

MACH	ALPHA	CM	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
2.001	-4.860	-1.4780	.12650	-.03940	.00620	.00210	.00010	-.13660	.13660	.02320
2.001	-2.650	-.06480	.12710	-.04850	.00350	.00160	.00010	-.05890	.12990	.02330
2.001	-.540	.01560	.12700	-.05850	.00320	.00140	.00020	.01670	.12690	.02320
2.001	1.800	.09490	.12780	-.06580	.00370	.00150	.00030	.09130	.13040	.02400
2.001	3.910	.17900	.12750	-.07560	.00270	.00130	.00040	.16990	.13940	.02460
1.998	6.010	.23730	.12730	-.08310	.00260	.00110	.00030	.24260	.15360	.02540
2.001	8.140	.33140	.12630	-.08890	.00220	.00110	.00060	.31020	.17190	.02620
2.003	10.360	.41850	.12670	-.09380	.00230	.00080	.00060	.38690	.19990	.02710
2.001	12.480	.49650	.12510	-.09790	.00180	.00070	.00080	.46070	.23010	.02730
2.001	14.670	.58790	.12330	-.10400	.00160	.00060	.00100	.53750	.26020	.02760
	GRADIENT	.03732	.00012	-.00411	-.00031	-.00006	.00504	.03502	.00011	.00016

REFERENCE DATA
 SREF = .0033 50.FT. XMRP = 12.6255 IN.
 LREF = .5935 FT. YMRP = .0000 IN.
 BREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 BDFLAP = 16.300

RUN NO. 101/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CM	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
.602	-3.970	-.22020	.06670	-.00320	.00470	-.00040	.00140	-.21500	.06180	.04720
.600	-1.680	-.11850	.07050	-.00350	.00510	-.00020	.00140	-.11610	.07440	.04590
.601	.270	-.01080	.07160	-.00340	.00330	-.00040	.00170	-.01120	.07160	.04400
.599	2.360	.08770	.06750	-.00690	.00580	-.00040	.00180	.08490	.07110	.04220
.598	4.480	.19440	.05930	-.00590	.00520	-.00060	.00170	.18920	.07430	.04090
.599	6.630	.30510	.04960	-.01200	.00540	-.00040	.00160	.29730	.06450	.04150
.600	8.720	.40950	.03820	-.01200	.00400	-.00050	.00110	.39890	.09990	.04120
.599	10.880	.53910	.02700	-.01890	.00610	-.00100	.00210	.52430	.12830	.04260
.600	13.040	.66190	.03640	-.03000	.00550	-.00070	.00210	.63660	.18480	.04560
.599	15.200	.77870	.03830	-.03330	.00430	-.00100	.00200	.74140	.24120	.05060
GRADIENT		.04896	-.00084	-.00079	.00008	-.00003	.00095	.04775	-.00087	-.00077

RUN NO. 100/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CM	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
.698	-3.710	-.22000	.07000	.00140	.00510	-.00020	.00140	-.21590	.06410	.04630
.701	-1.630	-.11000	.07350	-.00180	.00270	-.00040	.00130	-.10790	.07660	.04680
.702	.530	-.00560	.07320	-.00280	.00440	-.00010	.00160	-.00630	.07320	.04630
.701	2.690	.10440	.06790	-.00580	.00490	-.00050	.00190	.10110	.07280	.04230
.698	4.900	.21640	.06010	-.00890	.00360	-.00060	.00160	.21050	.07630	.04060
.699	7.030	.33270	.05030	-.01280	.00420	-.00030	.00140	.32400	.09070	.04090
.699	9.240	.46260	.03940	-.01770	.00520	-.00040	.00140	.45020	.11310	.04180
.699	11.400	.58300	.04440	-.02660	.00470	-.00040	.00210	.56280	.15880	.04410
.700	13.570	.70320	.04820	-.03240	.00450	-.00070	.00230	.67420	.21230	.04790
.699	15.760	.81000	.05320	-.03220	.00530	-.00090	.00150	.76510	.27120	.05400
GRADIENT		.05047	-.00119	-.00114	-.00004	-.00004	.00004	.04921	-.00070	-.00092

RUN NO. 99/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CM	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
.601	-3.900	-.24810	.07560	.00820	.00500	-.00040	.00110	-.24230	.09230	.05130
.601	-1.750	-.12960	.07780	.00420	.00440	-.00020	.00140	-.12720	.08170	.05670
.601	.440	-.01280	.07740	.00210	.00270	-.00040	.00140	-.01340	.07730	.04640
.601	2.660	.10130	.07140	-.00190	.00400	-.00030	.00160	.09790	.07610	.04500
.601	4.850	.22610	.06560	-.00750	.00390	-.00040	.00140	.21980	.06440	.04300
.601	7.030	.35790	.05930	-.01840	.00330	-.00020	.00220	.34790	.10270	.04160
.798	9.190	.47290	.06080	-.02400	.00360	-.00050	.00290	.45710	.13550	.04330
.799	11.410	.58710	.06300	-.03000	.00370	-.00050	.00290	.56300	.17790	.04610
.799	13.620	.71440	.07140	-.04350	.00350	-.00100	.00330	.67750	.23760	.05180
.799	15.790	.84070	.07490	-.05060	.00430	-.00120	.00210	.78860	.30080	.05710
GRADIENT		.05382	-.00121	-.00172	-.00012	-.00001	.00004	.05245	-.00097	-.00129

(RER014) (25 APR 74)

ARC 66-709 OAS5 0A11A-(R5 V8)-STRUT

PARAMETRIC DATA

BETA = .000 ELEVON = .000
8DFLAP = 16.300

REFERENCE DATA

SREF = .0033 50-FT. YMRP = 12.8255 IN.
LREF = .0033 50-FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 58/ 0 RN/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CAB
.903	-4.580	-3.2750	.08700	.03120	.00420	-.00010	.00080	-.31950	.11290
.900	-2.290	-1.8570	.09080	.02090	.00340	-.00030	.00120	-.18190	.05520
.901	.040	-.03620	.09040	.00710	.00320	-.00030	.00120	-.03630	.05150
.902	.370	-.01150	.09390	.00260	.00360	-.00020	.00170	-.01210	.05350
.898	2.470	.10730	.08860	-.00460	.00360	-.00040	.00290	.10340	.05070
.899	4.760	.23020	.08650	-.00930	.00250	-.00040	.00250	.22220	.04770
.900	6.950	.34880	.08460	-.01690	.00190	-.00110	.00270	.33600	.04570
.898	9.110	.46220	.08460	-.02580	.00300	-.00070	.00090	.44290	.04610
.900	11.320	.59580	.08980	-.04490	.00450	-.00160	.00320	.56630	.04950
.897	13.350	.71390	.09100	-.05790	.00670	-.00240	.00250	.67270	.05310
.899	15.810	.87630	.09950	-.08280	.00320	-.00150	.00110	.81610	.06090
GRADIENT		.06014	-.00012	-.00457	-.00013	-.00003	.00018	.05845	-.00088

RUN NO. 97/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CAB
1.202	-4.830	-.28680	.13110	.03200	.00380	.00020	.00150	-.27530	.15380
1.200	-2.420	-.14370	.13390	.01970	.00140	.00020	.00170	-.13800	.05180
1.200	-.170	.00630	.13770	-.01760	.00240	-.00010	.00140	.00670	.05330
1.202	2.110	.14260	.14050	-.04790	.00350	.00010	.00120	.13740	.05440
1.201	4.340	.28370	.14320	-.07480	.00230	-.00010	.00130	.27210	.16430
1.200	6.370	.41730	.14340	-.09670	.00290	.00020	.00150	.39820	.19020
1.199	8.860	.54330	.13990	-.10950	.00230	-.00010	.00150	.51550	.06000
1.199	11.090	.67090	.13880	-.12190	-.00050	.00100	.00270	.63170	.06170
1.203	13.350	.80380	.14030	-.13900	-.00300	.00140	.00390	.74970	.06490
1.198	15.800	.95080	.13840	-.14970	-.00160	.00120	.00250	.85930	.06630
GRADIENT		.08352	.00137	-.01429	-.00004	-.00003	-.00054	.06098	.00120

RUN NO. 96/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CAB
1.900	-4.350	-.19920	.13450	.00940	.00350	.00100	.00140	-.18840	.14920
1.901	-2.190	-.08810	.13340	-.01170	.00380	.00100	.00130	-.08280	.03990
1.900	.090	.02340	.13450	-.03360	.00350	.00100	.00120	.02530	.04030
1.900	2.230	.13260	.13450	-.03300	.00290	.00090	.00090	.12730	.04110
1.499	4.460	.24380	.13350	-.07250	.00230	.00070	.00100	.23260	.15180
1.900	6.710	.39530	.13190	-.08910	.00230	.00070	.00040	.33750	.17250
1.498	8.900	.45910	.13070	-.10280	.00250	.00040	.00060	.43330	.29020
1.497	11.120	.56850	.13080	-.11780	.00290	.00010	.00040	.53260	.23790
1.502	13.330	.68800	.12860	-.13110	.00450	-.00040	-.00040	.62010	.28010
1.498	15.370	.79220	.12750	-.14890	.00210	.00020	.00120	.72890	.33530
GRADIENT		.05021	-.00016	-.00931	-.00033	-.00003	-.00055	.54774	.05027

DATE 20 AUG 74 OAS9 TABULATED SOURCE DATA

ARC 86-709 OAS9 QAL1A-(85 V8)*STRUT

(RER014) (25 APR 74)

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
BDFLAP = 16.300

REFERENCE DATA

REF = .6033 30.FT. ZMRP = 12.6235 IN.
LREF = .5933 FT. ZMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0130

RUN NO. 95/ 0 RM/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFD	CY	CYN	CBL	CL	CD	CAB
2.000	-4.760	-1.0750	.11950	-.01350	.00560	.00110	.00000	-.17690	.13470	.02230
2.003	-2.680	-1.0720	.12010	-.02310	.00430	.00100	.00000	-.10140	.12500	.02260
2.000	-.540	-.02230	.11900	-.03360	.00390	.00090	.00000	-.02120	.11920	.02290
2.000	1.620	.05990	.11800	-.04460	.00380	.00060	.00010	.05660	.11960	.02330
1.997	3.840	.14340	.11670	-.05310	.00370	.00070	.00020	.13730	.12610	.02400
1.997	9.970	.22350	.11550	-.06330	.00360	.00070	.00020	.21230	.13830	.02470
1.997	6.150	.30480	.11430	-.07130	.00360	.00050	.00030	.29750	.15660	.02540
2.003	10.330	.38840	.11200	-.07630	.00390	.00050	.00040	.36200	.17960	.02570
1.997	12.510	.47410	.10990	-.08140	.00310	.00010	.00030	.43900	.21000	.02610
1.997	14.740	.56320	.10730	-.08700	.00440	.00010	.00070	.51740	.24710	.02670
	GRADIENT	.03827	-.00036	-.00468	-.00021	-.00005	.00002	.03651	-.00103	.00019

ARC 66-709 QASS 0A11A-(RS VN)+STRUT

(REROIS) (25 APR 74)

REFERENCE DATA

BREF = .0033 30.FT. ZMRP = 12.6255 IN.
LREF = .3935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
BDCLAP = .000

RUN NO. 106/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
.599	-4.170	-2.8840	.06430	.03560	.00040	-.00100	.00050	-.28290	.05510	.04710
.599	-2.050	-.16250	.06990	.03290	-.00060	-.00090	.00090	-.17990	.07640	.04580
.601	.100	-.07970	.07050	.03190	-.00170	-.00090	.00090	-.07990	.07030	.04540
.599	2.240	.02410	.06660	.03210	-.00260	-.00080	.00100	.02140	.06950	.04360
.600	4.400	.13190	.06110	.03070	-.00320	-.00090	.00100	.12680	.07110	.04170
.600	6.620	.24040	.04910	.02890	-.00230	-.00100	.00080	.23310	.07640	.04100
.600	8.690	.34560	.03740	.02600	-.00090	-.00090	.00050	.33600	.08910	.04110
.600	10.840	.47560	.02660	.02340	.00010	-.00160	.00160	.46020	.11520	.04220
.600	13.000	.60040	.03360	.01300	-.00020	-.00100	.00190	.57750	.16780	.04550
.600	15.170	.71500	.03290	.00920	-.00110	-.00130	-.00020	.68150	.21680	.04690
GRADIENT		.04867	-.00056	-.00049	-.00043	.00001	.00005	.04763	-.00163	-.00061

RUN NO. 107/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
.700	-4.280	-.30980	.06840	.04430	.00110	-.00090	.00070	-.30390	.09140	.05030
.700	-2.130	-.19480	.07130	.03900	-.00030	-.00080	.00080	-.19200	.07850	.04720
.702	.080	-.04510	.07270	.03800	-.00110	-.00080	.00040	-.06520	.07660	.04630
.701	2.170	.01780	.06910	.03710	-.00260	-.00090	.00080	.01520	.06970	.04410
.700	4.360	.12650	.06180	.03490	-.00320	-.00090	.00100	.12140	.07120	.04230
.700	6.310	.24040	.05080	.03150	-.00260	-.00090	.00090	.23310	.07780	.04030
.699	8.730	.36400	.04020	.02920	-.00250	-.00090	.00060	.35370	.09500	.04090
.702	10.920	.49470	.03990	.01960	-.00030	-.00150	.00090	.47810	.13290	.04240
.699	13.030	.60830	.04360	.01280	-.00290	-.00110	.00220	.56270	.18000	.04650
.699	15.260	.71980	.04480	.01380	-.00100	-.00180	-.00110	.68260	.23270	.05040
GRADIENT		.05029	-.00071	-.00096	-.00050	-.00000	.00003	.04902	-.00228	-.00090

RUN NO. 108/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
.789	-4.470	-.34110	.07220	.05470	.00130	-.00080	.00050	-.33440	.09860	.05080
.801	-2.260	-.21680	.07430	.05030	.00090	-.00070	.00050	-.21570	.08280	.04760
.600	-.180	-.10130	.07500	.04640	-.00080	-.00080	.00090	-.16120	.07520	.04540
.801	2.140	.01420	.07170	.04560	-.00170	-.00070	.00070	.01150	.07220	.04520
.600	4.290	.13050	.06460	.04040	-.00260	-.00070	.00090	.12530	.07410	.04090
.789	6.470	.26120	.05840	.03170	-.00170	-.00070	.00110	.25300	.08750	.04120
.789	8.660	.37750	.05690	.02530	-.00120	-.00110	.00120	.36450	.11320	.04160
.786	10.960	.49100	.05850	.02260	-.00140	-.00090	.00200	.47120	.14990	.04370
.601	13.030	.60930	.06490	.01020	-.00030	-.00130	.00230	.57900	.20050	.04730
.789	15.260	.75420	.06670	.00480	-.00090	-.00120	.00120	.69080	.23760	.05250
GRADIENT		.05566	-.00081	-.00132	-.00047	.00001	.00005	.05230	-.00272	-.00101

ARC #6 798 OAS9 OALIA-(RS V8)+STREUT

(RER013) (25 APR 74)

REFERENCE DATA

SREF = .0033 84.FT. XMRP = 12.0233 IN.
LREF = .3935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVON = .000
BDPLAP = .000

RUN NO. 103/ 0 RM/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
.899	-4.710	-.39080	.08500	.08080	.00130	-.00070	.00010	-.38250	.11680	.03230
.900	-2.390	-.24370	.08560	.06640	.00060	-.00080	.00070	-.23990	.09370	.03010
.899	-.210	-.10360	.08800	.05960	-.00050	-.00080	.00100	-.10330	.06840	.04670
.899	2.040	.03250	.08700	.04210	-.00190	-.00070	.00140	.02940	.08810	.04730
.901	4.280	.15710	.08550	.03470	-.00090	-.00040	.00190	.13030	.09690	.04490
.902	6.390	.28760	.08320	.03220	-.00030	-.00090	.00210	.25640	.11440	.04340
.899	6.840	.38740	.08100	.02360	-.00050	-.00100	.00150	.37090	.13830	.04170
.899	10.860	.50600	.08360	.01070	.00060	-.00150	.00230	.48200	.17750	.04530
.902	13.000	.63260	.08770	-.00940	.00100	-.00250	.00060	.59660	.22780	.04960
.899	13.280	.76810	.09000	-.02170	.00110	-.00230	.00110	.71730	.28920	.03550
GRADIENT		.06134	.00011	-.00350	-.00033	.00003	.00019	.05968	-.00213	-.00080

RUN NO. 104/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
1.199	-4.670	-.32160	.12480	.08400	.00060	.00030	.00130	-.31040	.15060	.04910
1.200	-2.420	-.17110	.12770	.04870	-.00040	.1020	.00110	-.16560	.13480	.04940
1.203	-.210	-.02750	.13240	.01480	-.00070	.00010	.00090	-.02690	.13250	.03130
1.202	2.040	.10950	.13320	-.01410	-.00030	.00000	.00090	.10470	.13700	.03240
1.204	4.280	.24090	.13550	-.03820	-.00060	.00000	.00080	.23010	.15310	.03470
1.202	6.520	.37280	.13390	-.05980	-.00150	.00000	.00090	.35510	.17540	.03690
1.201	8.780	.49810	.13040	-.07130	-.00120	-.00010	.00090	.47230	.20490	.03870
1.198	11.020	.62870	.12720	-.08220	-.00240	.00080	.00190	.59080	.24460	.03950
1.204	13.290	.76090	.12910	-.10070	-.00100	.00020	.00200	.71090	.30060	.06360
1.200	15.500	.88060	.12650	-.10840	-.00380	.00060	.00220	.81470	.35730	.06330
GRADIENT		.06286	.00120	-.01374	-.00010	-.00004	-.00005	.06043	.00032	.00063

RUN NO. 105/ 0 RM/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
1.501	-4.470	-.22750	.12850	.03320	.00100	.00110	.00120	-.21680	.14580	.03670
1.500	-2.240	-.11550	.12880	.01200	.00000	.00100	.00100	-.11040	.13320	.03810
1.500	.030	.00060	.12900	-.00450	.00050	.00100	.00080	.00550	.12900	.03930
1.498	2.180	.10370	.12850	-.02710	.00130	.00080	.00070	.09870	.13240	.04050
1.498	4.420	.21270	.12670	-.04410	.00090	.00060	.00060	.20230	.14270	.04160
1.498	6.800	.32160	.12430	-.05910	.00010	.00060	.00020	.30540	.16030	.04320
1.498	8.850	.42250	.12260	-.07020	-.00030	.00030	.00030	.39860	.18620	.04350
1.498	11.040	.52420	.12290	-.08160	-.00020	.00030	.00030	.49090	.22100	.04820
1.498	13.290	.63320	.12120	-.09630	.00070	-.00010	-.00040	.58840	.26350	.04880
1.497	15.510	.74510	.11750	-.10990	-.00050	.00040	.00070	.68650	.31250	.04900
GRADIENT		.04954	-.00018	-.00873	-.00003	-.00003	-.00007	.04718	-.00032	.00035

0439 TABULATED SOURCE DATA

DATE 28 AUG 74

(HER019) (29 APR 74)

ARC 66-709 0439 0411A-(R5 V0)+STRUT

REFERENCE DATA

SREF = .0033 94-FT. YMRP = 12.6235 IN.
 LREF = .0033 94-FT. YMRP = .0050 IN.
 BREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 BDFLAP = .000

RUN NO. 102/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
2.003	-4.890	-2.0280	.11610	-.00150	.00440	.00140	-.00010	-.19210	.13300	.02090
2.004	-2.690	-.12190	.11640	-.00910	.00230	.00100	-.00020	-.11630	.12200	.02140
2.001	-.390	-.03970	.11510	-.01750	.00170	.00090	.00010	-.03650	.11550	.02240
2.001	1.560	.04220	.11390	-.02760	.00210	.00070	.00010	.03910	.11500	.02330
2.001	3.760	.12480	.11260	-.03760	.00130	.00060	.00020	.11720	.12030	.02400
2.001	5.940	.20610	.11070	-.04560	.00110	.00060	.00010	.19350	.13140	.02440
2.001	8.070	.28370	.10880	-.05070	.00210	.00060	.00020	.28570	.14750	.02490
1.999	10.270	.36410	.10600	-.05410	.00080	.00040	.00020	.33940	.16920	.02370
1.999	12.440	.44500	.10320	-.05730	.00070	.00040	.00030	.41230	.19660	.02630
1.999	14.700	.53600	.10000	-.06020	.00070	.00030	.00060	.49310	.23270	.02710
GRADIENT		.03798	-.00044	-.00421	-.00030	-.00009	.00064	.03588	-.00148	.00034

ARC 66-709 OAS9 0411A-(RS VS)-STRUT

(REORIG) (23 APR 74)

REFERENCE DATA

REF = .0033 50-FT. TMRP = 12.6255 IN.
LREF = .3935 FT. TMRP = .0005 IN.
REF = 1.1710 FT. TMRP = -.3750 IN.
SCALE = .0130

ALPHA = .000 ELEVOM = .000
BDFLAP = -11.700

PARAMETRIC DATA

RUN NO. 76/ 0 RM/L = 2.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.000	-15.078	-1.0480	.07200	.03170	.15510	.02930	-.02340	-.10460	.07220	.06400
.001	-9.770	-1.0710	.07500	.04240	.09600	.01630	-.01310	-.10700	.07520	.05330
.002	-6.670	-1.0740	.07570	.04800	.06400	.01190	-.00930	-.10730	.07590	.05280
.003	-4.500	-1.0450	.07690	.03040	.04430	.00600	-.00320	-.10640	.07710	.05270
.004	-2.390	-1.0410	.07710	.03340	.02230	.00390	-.00170	-.10600	.07720	.05130
.005	-.300	-1.0450	.07770	.03330	.00160	.00030	-.00160	-.10640	.07790	.04930
.006	.710	-1.0330	.07770	.03600	-.00670	-.00100	.00340	-.10520	.07780	.04980
.007	1.770	-1.0320	.07650	.03610	-.01690	-.00300	.00300	-.10310	.07670	.05010
.008	3.810	-1.0230	.07640	.03460	-.03400	-.00660	.00830	-.10220	.07650	.05160
.009	5.830	-.09940	.07260	.03260	-.05640	-.01610	.01220	-.09930	.07270	.05010
GRADIENT		.00042	-.00006	.00052	-.00371	-.00173	.00163	.00042	-.00007	-.00019

RUN NO. 77/ 0 RM/L = 2.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.000	-15.050	-1.1760	.07480	.03800	.16100	.02890	-.02550	-.11740	.07490	.06550
.001	-9.740	-1.1510	.07740	.03030	.10100	.01740	-.01560	-.11300	.07760	.05610
.002	-6.620	-1.1490	.07830	.03410	.06890	.01150	-.00930	-.11470	.07850	.05370
.003	-4.510	-1.1630	.07820	.03630	.04830	.00770	-.00560	-.11610	.07840	.05260
.004	-2.340	-1.1610	.08060	.03910	.02310	.00380	-.00190	-.11600	.08080	.05220
.005	-.260	-1.1390	.07420	.04060	.00080	.00010	.00160	-.11380	.07850	.04970
.006	.850	-1.1430	.07910	.04060	-.00800	-.00130	.00350	-.11410	.07930	.04890
.007	1.850	-1.1460	.07930	.04100	-.01690	-.00310	.00300	-.11440	.07970	.04970
.008	3.900	-1.0810	.07660	.04030	-.03910	-.00640	.00840	-.10890	.07880	.05050
.009	6.010	-1.0410	.07330	.03900	-.06060	-.00980	.01240	-.10790	.07350	.05090
GRADIENT		.00073	-.00001	.00048	-.01011	-.00167	.00166	.00074	-.00001	-.00033

RUN NO. 78/ 0 RM/L = 2.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMPWD	CY	CYN	CBL	CL	CD	CAB
.000	-15.510	-1.1530	.06530	.04390	.17690	.02820	-.02630	-.13500	.06590	.07230
.001	-10.130	-1.1270	.06350	.03600	.11300	.01720	-.01660	-.12630	.06380	.05840
.002	-6.890	-1.1240	.06330	.03370	.07620	.01110	-.01040	-.12400	.06360	.05430
.003	-4.870	-1.1230	.06300	.06600	.03400	.00760	-.00630	-.12410	.06330	.05260
.004	-2.850	-1.1270	.06490	.06330	.02960	.00400	-.00240	-.12230	.06320	.05150
.005	-.430	-1.1230	.06360	.07000	.00440	.00040	.00130	-.12210	.06410	.05030
.006	.860	-1.1270	.06410	.07070	-.00360	-.00090	.00330	-.12260	.06440	.05090
.007	.900	-1.1260	.06420	.07090	-.00940	-.00120	.00360	-.12340	.06450	.05140
.008	1.880	-1.1210	.06270	.06860	-.01820	-.00250	.00320	-.12100	.06300	.04910
.009	3.910	-1.1610	.06140	.06830	-.04130	-.00590	.00860	-.11390	.06160	.04980
.002	6.120	-1.1660	.06230	.06600	-.06200	-.00870	.01290	-.11650	.06260	.05470
GRADIENT		.00071	-.00020	.00026	-.01079	-.00131	.00169	.00071	-.00021	-.00033

REFERENCE DATA

BREF = .6033 34.FT. TMRP = 12.6233 IN.
LREF = .5933 34.FT. TMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .001
BCFLAP = -11.700

RUN NO. 73/ 0 RM/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00											
MACH	BETA	CN	CA	CLMP/LD	CY	CYN	CBL	CL	CD	CAB	
.981	-15.420	-.15230	.10910	.03100	.20300	.02350	-.03300	-.13200	.10960	.07930	
.989	-10.070	-.12810	.10350	.06280	.13350	.01320	-.02060	-.12590	.10380	.06340	
.989	-6.870	-.11750	.10170	.06030	.09140	.00850	-.01350	-.11730	.10190	.03770	
.989	-4.740	-.11260	.10110	.07190	.06240	.00590	-.00800	-.11230	.10130	.05630	
.984	-2.540	-.10290	.10400	.07290	.03560	.00310	-.00310	-.10270	.10420	.04470	
.981	-.380	-.10200	.10400	.07480	.00660	.00070	.00170	-.10180	.10420	.03430	
.989	.680	-.10390	.10220	.07560	-.00560	-.00030	.00380	-.10580	.10240	.03380	
.983	.920	-.10000	.10240	.07420	-.00490	-.00060	.00400	-.09980	.10260	.03420	
.980	1.700	-.10410	.09970	.07640	-.01560	-.00120	.00370	-.10380	.09990	.03110	
.980	3.630	-.10290	.09980	.07530	-.04350	-.00350	.00350	-.10270	.10000	.03200	
.986	8.900	-.09750	.10530	.06370	-.07150	-.00500	.01370	-.09740	.10530	.03700	
GRADIENT		.00093	-.00026	.00046	-.01234	-.00109	.00213	.00092	-.00026	-.00093	

RUN NO. 74/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00											
MACH	BETA	CN	CA	CLMP/LD	CY	CYN	CBL	CL	CD	CAB	
1.200	-19.730	-.07870	.13490	.02880	.16690	.04720	-.01690	-.07640	.13510	.06280	
1.201	-10.090	-.04790	.13720	.02900	.09920	.02750	-.00860	-.04780	.13720	.05840	
1.199	-6.830	-.03570	.13770	.02600	.06630	.01770	-.03320	-.03560	.13770	.05320	
1.201	-4.650	-.03030	.13790	.02640	.04810	.01180	-.00290	-.03020	.13800	.05400	
1.203	-2.590	-.02560	.13750	.02540	.02920	.00660	-.00060	-.02530	.13750	.05340	
1.199	-.310	-.02230	.13610	.02560	.00430	.00160	.00210	-.02230	.13610	.05000	
1.201	.730	-.02190	.13580	.02620	-.00410	-.00020	.00330	-.02190	.13580	.04960	
1.203	1.620	-.02280	.13660	.02640	-.01630	-.00280	.00440	-.02270	.13660	.05090	
1.201	3.990	-.02280	.13620	.02650	-.03000	-.00730	.00700	-.02280	.13620	.05230	
1.202	6.360	-.02410	.13740	.02990	-.05890	-.01240	.00960	-.02410	.13740	.05320	
GRADIENT		.00046	-.00004	.00021	-.01004	-.00220	.00115	.00045	-.00003	-.00032	

RUN NO. 73/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00											
MACH	BETA	CN	CA	CLMP/LD	CY	CYN	CBL	CL	CD	CAB	
1.400	-16.140	-.07110	.12800	-.00390	.20290	.04760	-.02450	-.07060	.12820	.04450	
1.310	-10.400	-.04100	.13220	-.00010	.11550	.02920	-.01470	-.04080	.13220	.04550	
1.400	-7.130	-.03290	.13350	.00290	.07480	.01880	-.00940	-.03270	.13350	.04350	
1.300	-4.660	-.02590	.13420	.00440	.05170	.01240	-.00590	-.02580	.13420	.04180	
1.300	-2.690	-.02480	.13390	.00470	.02990	.00370	-.00300	-.02450	.13390	.04110	
1.300	-.470	-.02220	.13270	.00540	.00650	.00120	.00620	-.02210	.13270	.04050	
1.300	.460	-.02170	.13240	.00370	-.00200	-.00080	.00140	-.02160	.13250	.03960	
1.300	1.690	-.01990	.13260	.00620	-.01420	-.00360	.00320	-.01980	.13260	.03990	
1.300	3.890	-.02030	.13380	.00370	-.03520	-.00880	.00680	-.02040	.13380	.04060	
1.302	8.900	-.02060	.13270	.00510	-.05960	-.01430	.00940	-.02050	.13280	.04040	
GRADIENT		.00072	-.00010	.00019	-.01005	-.00242	.00139	.00072	-.00010	-.00010	

ARC 66-709 OAS9 GALLA- (R5 V8) +STRUT

(RERO17) (25 APR 74)

REFERENCE DATA

SREF = .0033 50. FT. XMRP = 12.0255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
BDFLAP = -11.700

RUN NO. 71/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
1.196	-15.260	-.06850	.13500	.02820	.16190	.04250	-.01650	-.06850	.13510	.06310
1.198	-9.740	-.04260	.13690	.02910	.03680	.02480	-.00940	-.04250	.13690	.03830
1.198	-6.450	-.03100	.13770	.02800	.06280	.01540	-.00580	-.03090	.13770	.05230
1.201	-4.280	-.02860	.13770	.02710	.04220	.01020	-.00360	-.02670	.13770	.05440
1.201	-2.140	-.02430	.13670	.02610	.02090	.00530	-.00110	-.02420	.13670	.05250
1.201	.020	-.02160	.13580	.02540	-.00070	.00070	.00120	-.02150	.13580	.05030
1.200	1.150	-.02060	.13610	.02600	-.01230	.00250	.00250	-.02060	.13610	.05050
1.202	2.190	-.02060	.13700	.02690	-.02330	.00400	.00360	-.02060	.13700	.05140
1.199	4.330	-.02260	.13660	.02610	-.04410	.00850	.00610	-.02260	.13660	.05360
1.200	6.470	-.02130	.13710	.03020	-.06410	.01320	.00890	-.02130	.13710	.05370
GRADIENT		.00060	.00007	.00011	-.01006	-.00216	.00112	.00059	.00007	-.00016

RUN NO. 70/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
1.500	-15.710	-.06930	.12810	-.00640	.13360	.04580	-.02450	-.06890	.12830	.04570
1.499	-10.020	-.03620	.13160	.00110	.10770	.02770	-.01470	-.03800	.13170	.04580
1.500	-6.710	-.02870	.13250	.00400	.06790	.01770	-.00940	-.02850	.13250	.04300
1.500	-4.530	-.02510	.13370	.00380	.04570	.01170	-.00610	-.02490	.13370	.04190
1.500	-2.320	-.02280	.13310	.00410	.02380	.00610	-.00310	-.02260	.13310	.04110
1.499	-.120	-.01970	.13200	.00460	.00140	.00070	.00000	-.01960	.13200	.04010
1.499	.860	-.02110	.13210	.00470	-.00890	.00160	.00140	-.02100	.13210	.03990
1.500	2.060	-.02010	.13280	.00470	-.02080	.00410	.00320	-.02000	.13280	.04010
1.502	4.210	-.02000	.13300	.00480	-.04130	.00940	.00610	-.01990	.13300	.04060
1.501	6.360	-.01930	.13180	.00480	-.06400	.01530	.00900	-.01920	.13180	.04100
GRADIENT		.00059	-.00009	.00012	-.00999	-.00240	.00140	.00057	-.00009	-.00018

RUN NO. 89/ 0 RN/L = 2.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
1.899	-15.140	-.06050	.11760	-.03020	.19540	.04040	-.01970	-.06020	.11780	.02530
1.999	-9.500	-.03470	.11760	-.02470	.10890	.02570	-.01240	-.03450	.11770	.02570
2.001	-6.210	-.02540	.11720	-.02000	.06610	.01730	-.00820	-.02520	.11720	.02460
2.001	-3.970	-.02260	.11820	-.01740	.04000	.01130	-.00520	-.02250	.11820	.02410
1.999	-1.810	-.02190	.11760	-.01560	.01610	.00560	-.00230	-.02170	.11760	.02350
1.999	.380	-.02060	.11770	-.01530	-.00550	.00020	.00060	-.02040	.11780	.02340
1.998	1.460	-.02060	.11810	-.01510	-.01740	.00260	.00210	-.02050	.11810	.02350
2.001	2.550	-.02010	.11780	-.01530	-.02840	.00530	.00360	-.02000	.11780	.02310
2.006	4.700	-.01640	.11690	-.01690	-.05010	.01030	.00630	-.01830	.11690	.02340
2.004	6.690	-.01910	.11650	-.01660	-.07600	.01600	.00920	-.01900	.11660	.02400
GRADIENT		.00046	-.00010	.00008	-.01036	-.00251	.00133	.00046	-.00010	-.00008

REFERENCE DATA

3REF = .6033 30.FT. YMRP = 12.6255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
BDFLAP = -11.700

RUN NO. 53/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
.801	-4.620	.45360	.02990	.04580	.04920	.00700	.00000	.44040	.11270	.04460
.803	-2.450	.45320	.02930	.04590	.02580	.00300	-.00010	.44010	.11200	.04420
.800	-.340	.44720	.02980	.04690	.00430	-.00060	-.00030	.43420	.11130	.04200
.599	.770	.44700	.02870	.04350	-.00380	-.00230	-.00070	.43410	.11010	.04290
.830	1.700	.44640	.02740	.04310	-.01680	-.00410	-.00110	.43380	.10870	.04220
.599	.44490	.44490	.02770	.04440	-.03620	-.00780	-.00120	.43230	.10870	.04430
.599	5.690	.44680	.03060	.03980	-.05860	-.01120	-.00090	.43360	.11200	.04810
.599	6.090	.44330	.03120	.03730	-.07840	-.01580	-.00110	.43210	.11220	.05130
.599	11.160	.43860	.03310	.03570	-.10350	-.02150	-.00080	.42520	.11280	.05440
.599	16.250	.42850	.04150	.02840	-.15330	-.03100	-.00020	.41370	.11910	.06830
GRADIENT		-.00117	-.00029	-.00017	-.01016	-.00175	-.00016	-.00109	-.00034	-.00012

RUN NO. 54/ 0 RN/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
.898	-4.570	.47310	.04770	.04090	.05210	.00580	-.00100	.45810	.13480	.04680
.897	-2.390	.47320	.04540	.04270	.02640	.00240	-.00040	.45670	.13210	.04380
.896	-.280	.46950	.04410	.04190	.00190	-.00040	-.00020	.45330	.13020	.04320
.896	.720	.46800	.04410	.04150	-.00830	-.00160	.00010	.45180	.12980	.04290
.89	1.640	.46770	.04470	.04050	-.01870	-.00330	.00000	.45140	.13040	.04410
.896	3.680	.46320	.04330	.03950	-.04060	-.00730	-.00020	.44920	.12840	.04440
.899	5.990	.47350	.04390	.03900	-.06390	-.01090	.00000	.45720	.13070	.04880
.896	6.100	.46610	.04350	.03420	-.08440	-.01470	.00090	.45000	.12880	.05020
.897	11.280	.45610	.04440	.03600	-.11440	-.02090	.00100	.44010	.12770	.05750
.897	16.510	.43820	.05240	.03210	-.16870	-.03310	.00200	.41920	.13160	.07160
GRADIENT		-.00121	-.00046	-.00022	-.01094	-.00150	.00010	-.00111	-.00070	-.00016

RUN NO. 53/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
.798	-4.520	.46300	.06330	.04290	.05680	.00680	-.00070	.46430	.15470	.04680
.802	-2.380	.48020	.06330	.04430	.02800	.00320	.00040	.45960	.15380	.04560
.800	-.230	.47610	.06430	.04500	.00240	-.00030	.00070	.45170	.15200	.04390
.799	.790	.47670	.06450	.04510	-.00810	-.00160	.00050	.45230	.15230	.04540
.798	1.960	.47290	.06340	.04410	-.02180	-.00370	.00100	.45260	.15040	.04460
.798	4.120	.47310	.06410	.04130	-.04730	-.00740	.00180	.45480	.15150	.04550
.795	6.150	.47390	.06310	.03680	-.07300	-.01150	.00290	.45390	.15020	.04720
.799	6.340	.47310	.06650	.03550	-.09840	-.01650	.00460	.45440	.15380	.05120
.799	11.490	.46090	.06610	.03290	-.13200	-.02450	.00660	.44060	.15160	.06470
.799	16.840	.42950	.07110	.03380	-.18980	-.03770	.00830	.40900	.14930	.07640
GRADIENT		-.00125	-.00020	-.00013	-.01196	-.00163	.00023	-.00119	-.00043	-.00016

ARC 66-759 OAS9 OALIA-(RS V8)*STREUT

(RER018) (25 APR 74)

REFERENCE DATA

SREF = .0633 SQ.FT. XMRP = 12.6255 IN.
LREF = .5935 FT. YMRP = .0500 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
BCFLAP = -11.705

RUN NO. 52/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWC	CY	CYN	CBL	CL	CD	CAB
.900	-4.480	.52290	.09630	.01790	.06320	.00560	-.00030	.49540	.19320	.05180
.900	-2.230	.51950	.09280	.02300	.03200	.00200	-.00020	.49270	.18910	.04870
.903	-.090	.52760	.09410	.01490	.00350	-.00220	.00070	.50040	.19190	.04900
.902	.980	.52280	.09220	.01900	-.01170	-.00370	.00120	.49610	.18910	.04840
.901	2.080	.52020	.09070	.02130	-.02610	-.00510	.00100	.49380	.18710	.04740
.901	4.170	.52530	.09350	.01790	-.05670	-.00900	.00100	.49830	.19080	.04970
.901	6.430	.52180	.09420	.01520	-.08670	-.01390	.00270	.49470	.19080	.05180
.901	8.570	.51420	.09750	.01540	-.11270	-.01860	.00300	.48670	.19240	.05340
.897	11.740	.47980	.09590	.02740	-.14590	-.02770	.00470	.45340	.18400	.05910
.899	17.150	.44370	.10150	.02650	-.21320	-.04280	.00610	.41700	.16230	.07480
GRADIENT		.00024	-.00038	-.00007	-.01379	-.00168	.00019	.00031	-.00034	-.00027

RUN NO. 51/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWC	CY	CYN	CBL	CL	CD	CAB
1.200	-4.400	.62320	.12780	-.06240	.04500	.00910	.00010	.58680	.24570	.05870
1.201	-2.280	.62940	.13000	-.06730	.02120	.00460	.00070	.59240	.24920	.06100
1.198	-.010	.63070	.13020	-.06680	-.00300	.00050	.00090	.59370	.24960	.06070
1.198	1.040	.62380	.12960	-.06500	-.01350	-.00190	.00030	.58700	.24750	.06090
1.199	2.210	.62160	.12920	-.06460	-.02490	-.00430	.00010	.58500	.24660	.05990
1.201	4.270	.61700	.12800	-.06380	-.04520	-.00920	.00070	.58080	.24450	.05890
1.202	6.400	.60950	.12780	-.06280	-.06750	-.01470	.00150	.57350	.24270	.05760
1.203	8.610	.60660	.12790	-.06090	-.08770	-.02130	.00110	.57060	.24220	.05770
1.204	11.880	.59300	.12310	-.05460	-.11980	-.03290	.00010	.55830	.23470	.05340
1.197	17.430	.57180	.11700	-.04610	-.19420	-.05350	-.00190	.53280	.22430	.05640
GRADIENT		-.00091	-.00001	-.00000	-.01039	-.00208	-.00001	-.00088	-.00022	-.00001

RUN NO. 50/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWC	CY	CYN	CBL	CL	CD	CAB
1.501	-4.630	.52310	.12370	-.06970	.04970	.01130	-.00300	.49000	.22110	.04690
1.502	-2.430	.52320	.12440	-.07070	.02690	.00550	-.00170	.48990	.22190	.04810
1.502	-.250	.52320	.12510	-.07140	.00150	.00000	.00080	.48980	.22260	.04890
1.501	.610	.52310	.12510	-.07130	-.00840	-.00240	.00170	.48970	.22260	.04860
1.501	1.930	.51940	.12440	-.07010	-.02130	-.00520	.00250	.48610	.22110	.04770
1.502	4.160	.51480	.12250	-.06880	-.04290	-.01160	.00380	.48210	.21820	.04520
1.502	6.330	.51010	.12070	-.06700	-.06480	-.01900	.00400	.47790	.21550	.04420
1.502	8.610	.50780	.11940	-.06600	-.08790	-.02650	.00390	.47560	.21370	.04420
1.502	11.810	.50640	.11420	-.06790	-.12870	-.03610	.00290	.47350	.20830	.04260
1.502	17.430	.49210	.11440	-.06750	-.21110	-.05290	.00360	.46160	.20350	.04890
GRADIENT		-.00087	-.00009	.00009	-.01064	-.00236	.00082	-.00084	-.00127	-.00015

DATE 29 AUG 74 OAS9 TABULATED SOURCE DATA

(REK018) (29 APR 74)

ARC 66-709 OAS9 OALIA-(RS V8)+STRUT

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
BDCLAP = -11.700

REFERENCE DATA

SREF = .0033 30.FT. XMRP = 12.6255 IM.
LREF = .5935 FT. YMRP = .0000 IM.
BREF = 1.1710 FT. ZMRP = -.3750 IM.
SCALE = .0150

RUN NO. 49/ 0 RN/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CM	CA	CLMFWO	CY	CYN	CSL	CL	CO	CAB
2.001	-4.130	.3700	.10360	-.04690	.04090	.01140	-.00180	.34470	.17260	-.02740
2.006	-1.860	.37730	.10750	-.04780	.01730	.00360	-.00110	.33060	.17560	.02700
2.001	.290	.37620	.10770	-.04770	-.00360	-.00050	.00000	.34970	.17560	.02670
1.998	1.400	.37640	.10830	-.04820	-.01540	-.00370	.00060	.34960	.17630	.02730
1.998	2.410	.37630	.10770	-.04840	-.02470	-.00640	.00090	.34970	.17570	.02720
1.998	4.670	.37560	.10650	-.04900	-.04840	-.01260	.00190	.34930	.17430	.02700
1.998	9.050	.38040	.10590	-.05310	-.10230	-.02400	.00260	.35410	.17460	.02750
1.998	12.430	.38080	.10400	-.05680	-.14580	-.03340	.00330	.35490	.17280	.02770
1.998	17.860	.35850	.10460	-.05660	-.23300	-.04750	.00410	.33310	.16890	.02950
	GRADIENT	.00041	.00010	-.00022	-.01009	-.00275	.00043	.00038	.00017	-.00002

ARC 66-709 0459 0411A-(N24)

(RERO19) (13 JUN 74)

REFERENCE DATA

SREF = -6033 58-FT. ZMRP = 12.6255 IN.
 LREF = -5935 FT. YMRP = -0000 IN.
 BREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 BCLAP = -11.700 SPOBRK = 25.000

RUN NO. 123/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLNFWO	CY	CYN	CBL	CL	CD	CAB
.596	-4.000	-28740	.06060	.05660	.00470	.00000	.00040	-.28240	.06050	.03500
.595	-2.000	-19440	.06450	.03390	.00340	.00050	.00050	-.19200	.07130	.03480
.595	.100	-08350	.06700	.03340	.00290	.00000	.00000	-.08560	.06690	.03370
.597	2.170	.01030	.06430	.03320	.00260	.00000	.00080	.00790	.06460	.03440
.597	4.260	.11310	.05810	.03260	.00340	.00030	.00090	.10850	.06630	.03400
.597	6.310	.21620	.04880	.03050	.00330	.00030	.00080	.20950	.07220	.03310
.597	8.430	.31920	.03690	.04920	.00630	.00050	.00070	.31030	.06330	.03330
.597	10.480	.43600	.02530	.04840	.00980	.00100	.00150	.42410	.10440	.03380
.598	12.620	.55380	.03160	.03600	.01110	.00090	.00180	.53350	.15180	.03350
.596	14.670	.67270	.02890	.03130	.01320	.00130	.00110	.64360	.19800	.03790
GRADIENT		.04861	-.00026	-.00042	-.00016	-.00003	.00006	.04745	-.00169	-.00012

RUN NO. 122/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLNFWO	CY	CYN	CBL	CL	CD	CAB
.801	-4.270	-33200	.06790	.07470	.00450	.00010	.00030	-.32610	.09240	.03690
.802	-2.230	-21460	.06980	.06920	.00310	.00010	.00040	-.21370	.07800	.03510
.800	-.090	-11350	.07060	.06680	.00310	.00010	.00060	-.10340	.07080	.03450
.800	2.060	.00440	.06840	.06450	.00350	.00030	.00080	.00190	.06860	.03310
.801	4.100	.11330	.06470	.06180	.00270	.00030	.00080	.11040	.07270	.03430
.802	6.200	.23650	.05920	.03330	.00320	.00010	.00130	.22870	.08440	.03370
.803	8.330	.34590	.05960	.04840	.00690	.00070	.00120	.33360	.10910	.03440
.800	10.460	.45210	.05910	.04750	.00960	.00070	.00170	.43390	.14020	.03580
.802	12.550	.56180	.06490	.03600	.01150	.00120	.00250	.53420	.18540	.03740
.801	14.710	.68170	.06780	.03030	.01260	.00130	.00190	.64220	.23870	.04050
GRADIENT		.05304	-.00036	-.00145	-.00015	-.00003	.00007	.05176	-.00232	-.00034

RUN NO. 121/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLNFWO	CY	CYN	CBL	CL	CD	CAB
.850	-4.320	-34820	.07150	.08210	.00410	.00010	.00010	-.34180	.09760	.03680
.850	-2.280	-23370	.07340	.07670	.00290	.00010	.00040	-.23560	.08260	.03620
.850	-1.170	-11310	.07400	.07270	.00280	.00010	.00050	-.11290	.07440	.03550
.850	1.960	-00010	.07390	.06860	.00290	.00000	.00060	-.05260	.07380	.03440
.852	4.030	.12110	.07090	.06110	.00310	.00030	.00100	.11380	.07930	.03440
.850	6.130	.23330	.07030	.05540	.00340	.00010	.00170	.22450	.09500	.03320
.849	8.290	.33590	.06990	.03360	.00700	.00040	.00130	.32230	.11760	.03460
.849	10.330	.44240	.07270	.04840	.00990	.00100	.00140	.42220	.15080	.03650
.848	12.480	.55340	.07740	.03730	.01140	.00130	.00270	.52370	.19500	.03940
.849	14.560	.68330	.07910	.03020	.01300	.00140	.00180	.62220	.24330	.04360
GRADIENT		.05587	-.00003	-.00239	-.00009	-.00002	.00010	.05449	-.00215	-.00031

DATE 29 AUG 74 OAS9 TABULATED SOURCE DATA

(IRER019) (13 JUN 74)

AEC 66-709 OAS9 0A111A-(M24)

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
BDFLAP = -11.700 SPDERK = 25.000

REFERENCE DATA

SRLF = .0033 30.FT. XMRP = 12.8233 IN.
LREF = .0033 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 120/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.901	-4.400	-3.6340	.07880	.09210	.00370	-.00010	.00010	-.35620	.10630	.03760
.902	-4.270	-2.2900	.08030	.08070	.00380	-.00020	.00050	-.22570	.08940	.03550
.903	-4.160	-.09200	.08440	.06590	.00230	-.00010	.00040	-.09170	.08460	.03530
.904	1.930	.02140	.08180	.05910	.00310	-.00030	.00070	.01850	.08240	.03410
.905	4.020	.13420	.08270	.05550	.00390	-.00040	.00060	.12810	.09190	.03330
.906	6.100	.24240	.08370	.05030	.00430	-.00040	.00150	.23220	.10900	.03480
.907	8.260	.34700	.08270	.04430	.00740	-.00060	.00090	.33160	.13170	.03420
.908	10.320	.47110	.08340	.02680	.01070	-.00160	.00120	.44850	.16640	.03800
.909	12.480	.57320	.08470	.01780	.01550	-.00270	.00190	.54130	.20650	.03830
.910	14.530	.66920	.08930	.00790	.01420	-.00230	.00140	.64470	.25960	.04560
GRADIENT		.03921	.00044	-.00451	-.00001	-.00003	.00006	.05766	-.00173	-.00046

RUN NO. 119/ 0 RN/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.951	-4.460	-3.5150	.09810	.09120	.00290	.00020	.00040	-.34300	.12320	.04220
.952	-2.330	-.20390	.09850	.06080	.00250	.00000	.00040	-.19980	.10480	.03820
.953	-.210	-.05280	.10200	.03930	.00180	.00010	.00060	-.05240	.10220	.04060
.954	1.930	.07970	.09940	.02060	.00190	-.00010	.00060	.07630	.10200	.03850
.955	4.760	.20980	.09480	.00370	.00420	-.00030	.00080	.20230	.10940	.03930
.956	6.770	.33460	.09860	-.01180	.00370	-.00040	.00130	.32230	.13190	.03840
.957	8.280	.43360	.09450	-.01010	.00370	.00000	.00110	.41540	.15590	.04170
.958	10.390	.55980	.09550	-.02200	.00680	-.00020	.00100	.53330	.19490	.04730
.959	12.450	.66230	.10020	-.02900	.00770	-.00270	.00220	.62510	.24060	.05070
.960	14.810	.77900	.10020	-.03760	.01210	.00020	.00120	.72850	.29350	.05270
GRADIENT		.06602	.00001	-.01010	.00009	-.00007	.00005	.06418	-.00143	-.00026

RUN NO. 118/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
1.200	-3.980	-.28470	.14510	.09840	.00280	-.00010	.00010	-.27400	.16450	.04930
1.201	-1.950	-.14690	.14700	.06610	.00180	.00000	.00060	-.14180	.15190	.04890
1.199	-.220	-.04500	.14760	.04340	.00170	.00010	.00060	-.04440	.14770	.04930
1.202	.240	-.01440	.14730	.03670	.00050	.00030	.00070	-.01500	.14720	.04910
1.202	2.350	.11320	.14650	.01020	.00060	.00030	.00070	.10710	.15160	.04920
1.202	4.510	.23680	.14430	-.01330	.00230	.00000	.00090	.22430	.16250	.04930
1.200	6.650	.35580	.14060	-.03020	.00310	.00000	-.00020	.33720	.18080	.05000
1.200	8.800	.47670	.13590	-.04250	.00410	-.00010	.00030	.45030	.20730	.05170
1.202	10.690	.59570	.13370	-.05290	.00510	-.00040	.00050	.55970	.24390	.05420
1.199	13.110	.72670	.13360	-.07060	.00580	-.00010	.00060	.67740	.29390	.05720
1.201	15.190	.83430	.13270	-.08080	.00700	-.00010	.00170	.77030	.34670	.05980
GRADIENT		.06118	-.00011	-.01310	-.00010	.00002	.00008	.05851	-.00013	-.00000

REFERENCE DATA

SREF = .6053 SQ.FT. XMRP = 12.8255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

BETA = .000 ELEVON = .000
BDFLAP = -11.700 SPOBRK = 29.000

PARAMETRIC DATA

RUN NO. 117/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
1.500	-4.200	-22660	.14850	.03640	.00430	.00030	.00020	-.21510	.16470	.03890
1.499	-2.130	-12210	.14650	.03680	.00270	.00000	.00040	-.11660	.15990	.03940
1.500	-.070	-01670	.14420	.02040	.00220	.00010	.00030	-.01660	.14430	.03830
1.501	.460	.00650	.14360	.01690	.00210	.00010	.00030	.00030	.14370	.03780
1.500	2.220	.09470	.14140	.00120	.00310	.00010	.00040	.08910	.14500	.03780
1.500	4.710	.21510	.13720	-.01800	.00400	.00000	.00060	.20310	.15440	.03820
1.499	6.760	.31260	.13320	-.03110	.00400	.00030	-.00020	.29470	.16900	.03860
1.497	8.890	.41060	.13040	-.04220	.00400	.00030	.00040	.38550	.19220	.03990
1.496	11.750	.50980	.12890	-.05510	.00620	.00030	-.00040	.47560	.22420	.04170
1.499	13.110	.61000	.12740	-.06700	.00720	.00030	-.00100	.56520	.26230	.04290
1.501	15.250	.71370	.12410	-.07610	.00630	.00030	.00070	.65600	.30740	.04330
1.496	GRADIENT	.04960	-.00125	-.00858	-.00001	-.00002	.00004	.04698	-.00116	-.00014

RUN NO. 116/ 0 RN/L = 2.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
2.004	-4.740	-20130	.12910	.01750	.00470	.00040	.00010	-.19000	.14530	.02080
1.999	-2.700	-12690	.12860	.01000	.00370	.00040	.00010	-.12070	.13440	.02080
1.997	-.610	-.04690	.12650	.00130	.00390	.00020	.00010	-.04760	.12700	.02140
2.006	-.110	-.03560	.12530	-.00180	.00420	.00030	.00010	-.03530	.12540	.02090
2.000	1.540	.03310	.12480	-.00910	.00360	.00020	.00020	.02970	.12570	.02150
1.997	3.600	.10960	.12260	-.01850	.00440	.00010	.00010	.10160	.12920	.02200
1.998	5.710	.18430	.11890	-.02750	.00540	.00010	.00010	.17160	.13660	.02160
2.001	7.850	.25690	.11560	-.03160	.00300	.00010	.00010	.24070	.14980	.02160
2.003	9.920	.33290	.11300	-.03380	.00560	.00020	.00020	.30840	.16860	.02230
2.003	12.030	.41240	.10950	-.03480	.00620	.00020	.00030	.38030	.19300	.02240
2.001	14.370	.49860	.10570	-.03600	.00700	.00020	.00040	.45680	.22610	.02300
2.001	GRADIENT	.03732	-.00081	-.00436	-.00003	-.00004	.00000	.03501	-.00200	.00014

DATE 29 AUG 74

OAS9 TABULATED SOURCE DATA

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ARC 66-709 OAS9 0A11A-(IN24)

(REMO20) (13 JUN 74)

REFERENCE DATA

SRF = .0033 38.FT. XMRP = 12.6235 IN.
LREF = .3933 FT. YMRP = .0090 IN.
BRF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
BOFLAP = -11.700 SPOBRK = 25.000

RUN NO. 144/ 0 RM/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPD	CY	CYN	CBL	CL	CD	CAB
.594	-3.890	.00360	.08020	-.08980	-.00170	.00030	.00030	.00980	.08780	.04680
.600	-1.920	.09540	.09080	-.09010	-.00150	.00010	.00050	.09840	.08750	.04400
.599	.150	.19490	.09180	-.09110	-.00020	-.00020	.00060	.19470	.09230	.04290
.600	2.300	.29410	.08750	-.09150	.00010	-.00030	.00070	.29040	.09920	.04170
.598	4.350	.39550	.08080	-.09060	.00000	.00000	.00070	.38820	.11060	.04150
.598	6.430	.50080	.07030	-.09380	.00080	-.00030	.00080	.48970	.12590	.04130
.600	8.560	.63820	.05950	-.10430	.00070	-.00050	.00150	.62030	.15360	.04120
.600	10.630	.76910	.05120	-.11400	.00280	-.00090	.00100	.74640	.19220	.04220
.600	12.700	.89376	.06130	-.11150	.00600	.00060	-.00020	.81930	.24750	.04400
.598	14.780	.93310	.06350	-.10250	.00440	-.00130	.00120	.88610	.29950	.04630
GRADIENT		.04746	-.00088	-.00014	.00024	-.00008	.00003	.04385	.00278	-.00062

RUN NO. 143/ 0 RM/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPD	CY	CYN	CBL	CL	CD	CAB
.799	-4.160	-.08710	.09520	-.06490	-.00670	.00030	.00010	-.08000	.10120	.04690
.796	-2.050	.04340	.09680	-.07480	-.00540	.00010	.00030	.04680	.09510	.04440
.800	.020	.15720	.09960	-.08100	-.00390	.00040	.00080	.15710	.09960	.04290
.798	2.090	.27120	.09820	-.08980	-.00280	.00060	.00080	.26740	.10800	.04290
.803	4.210	.40340	.09490	-.09950	-.00290	.00060	.00080	.39540	.12420	.04410
.798	6.440	.53820	.08740	-.11270	-.00250	.00060	.00080	.50560	.14720	.04000
.802	8.480	.60840	.09560	-.10460	-.00130	.00090	.00150	.58770	.18400	.04350
.799	10.550	.71730	.09460	-.10840	-.00120	.00100	.00240	.68790	.22440	.04590
.800	12.680	.82060	.10400	-.11510	-.00070	.00100	.00480	.77770	.28160	.04910
.801	14.790	.95060	.10820	-.12330	.00300	-.00150	.00170	.89140	.34730	.05550
GRADIENT		.05790	.00004	-.00403	.00049	-.00011	.00009	.05611	.00282	-.00034

RUN NO. 142/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPD	CY	CYN	CBL	CL	CD	CAB
.806	-4.320	-.15250	.11060	-.03590	-.00660	.00080	-.00030	-.14370	.12180	.05050
.804	-2.210	.00750	.11230	-.06340	-.00520	.00030	.00000	.01180	.11200	.04590
.806	.130	.13140	.11400	-.08380	-.00400	.00000	.00000	.13170	.11370	.04470
.809	2.030	.26810	.11730	-.10170	-.00390	.00010	.00030	.26380	.12670	.04450
.901	4.190	.40910	.11640	-.11710	-.00350	-.00020	.00030	.39950	.14650	.04230
.899	6.280	.52880	.11600	-.12810	-.00650	.00040	.00210	.51290	.17310	.04350
.901	8.360	.64170	.11970	-.13410	-.00340	.00010	.00150	.61750	.21180	.04610
.897	10.440	.72160	.12170	-.12410	-.00260	.00060	.00230	.68770	.25540	.04800
.899	12.540	.84250	.13390	-.13950	.00020	-.00110	.00080	.79340	.31380	.05610
.803	14.730	.93500	.13880	-.14820	.00140	-.00110	.00050	.88640	.37640	.08250
GRADIENT		.06508	.00078	-.00943	.00035	-.00011	.00008	.06295	.00299	-.00084

REFERENCE DATA

SREF = .6033 20.FT. XMRP = 12.6233 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

PARAMETRIC DATA

BETA = .050 ELEVON = 15.000
BCFLAP = -11.700 SPCBAR = 25.000

RUN NO. 141/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
1.193	-4.410	-1.6800	.17120	-.00540	-.00480	.00070	-.00050	-.15490	.18370	.05780
1.197	-2.310	-.02910	.17300	-.03740	-.00390	.00010	-.00050	-.02210	.17410	.03700
1.199	-.210	.09350	.17450	-.06820	-.00330	.00000	-.00020	.09610	.17420	.05660
1.200	2.000	.23220	.17550	-.09680	-.00390	.00000	.00010	.22600	.18350	.05670
1.205	4.180	.36590	.17550	-.12390	-.00400	.00000	.00020	.35210	.20170	.05660
1.199	6.240	.48840	.17320	-.14400	-.00410	.00000	.00020	.46660	.22530	.05600
1.196	8.410	.61830	.17000	-.16160	-.00250	-.00040	.00030	.58660	.25660	.05720
1.197	10.510	.74700	.16950	-.17570	-.00300	.00040	.00070	.70390	.30300	.05940
1.197	12.700	.87230	.17080	-.18800	-.00230	-.00030	.00080	.81340	.35840	.06110
1.191	14.790	.98800	.17010	-.19780	-.00200	.00000	.00060	.91190	.41660	.06140
GRADIENT		.06190	.00051	-.01379	.00007	-.00007	.00009	.05872	.00214	-.00012

RUN NO. 140/ 0 RN/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
1.301	-4.290	-.13910	.16630	-.01330	-.00060	.00060	-.00030	-.12830	.17630	.04500
1.300	-2.210	-.03670	.16650	-.03180	-.00050	.00040	-.00040	-.03020	.16780	.04450
1.498	-.030	.06840	.16500	-.05030	.00060	.00010	-.00020	.06850	.16500	.04360
1.499	2.150	.17320	.16380	-.06850	.00030	.00000	.00010	.18900	.17030	.04360
1.497	4.180	.27720	.16210	-.08350	.00030	.00020	-.00020	.26460	.18190	.04400
1.500	6.340	.36150	.15920	-.10120	-.00040	.00010	-.00040	.36160	.20040	.04420
1.500	8.460	.48700	.15800	-.11740	-.00060	.00010	-.00040	.45850	.22790	.04440
1.499	10.560	.59120	.15890	-.13260	-.00060	.00000	-.00030	.55200	.26450	.04580
1.497	12.690	.69000	.15880	-.14440	-.00010	.00010	-.00010	.63820	.30650	.04720
1.494	14.610	.79820	.15760	-.15880	.00030	.00010	.00010	.72950	.35590	.04790
GRADIENT		.04903	-.00052	-.00890	.00005	-.00006	.00002	.04605	.00064	-.00014

RUN NO. 139/ 0 RN/L = 2.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
2.000	-4.770	-.15910	.13880	-.02550	.00160	.00030	-.00020	-.14700	.15150	.02280
2.000	-2.690	-.08080	.13850	-.03390	.00290	.00040	-.00020	-.07430	.14220	.02280
2.000	-.610	.00200	.13610	-.04200	.00180	.00030	-.00020	.00340	.13610	.02350
2.000	1.470	.08110	.13740	-.04980	.00200	.00020	.00010	.07760	.13950	.02340
2.000	3.850	.15890	.13680	-.06190	.00230	.00030	.00000	.14790	.14650	.02380
2.000	5.710	.23800	.13480	-.07020	.00180	.00020	-.00010	.22340	.15780	.02310
1.997	7.620	.31170	.13380	-.07670	.00220	.00040	.00010	.29060	.17500	.02360
1.997	9.910	.39300	.13240	-.08060	.00230	.00040	.00000	.36430	.19300	.02450
1.997	11.980	.46990	.13050	-.08510	.00230	.00040	.00020	.43260	.22320	.02410
1.996	14.110	.55330	.12840	-.08950	.00270	.00040	.00030	.50530	.25940	.02390
GRADIENT		.03760	-.00024	-.00423	.00007	-.00001	.00002	.03531	-.00059	.00012

(RER021) (13 JUN 74)

ARC 66-709 QAS9 QAL11A-(M24)

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
BCFLAP = -11.700 SPDRK = 25.000

REFERENCE DATA

SREF = .5033 34-FT. XMRP = 12.8255 IN.
LREF = .9935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 138/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
2.005	-4.720	-1.4990	.13990	-.02670	.00330	.00030	.00010	-.13790	.13170	.02300
1.997	-2.660	-.06700	.13950	-.03490	.00440	.00030	-.00010	-.06030	.14250	.02310
1.999	-.970	.01170	.13930	-.04300	.00430	.00030	.00000	.01310	.13920	.02300
1.998	1.320	.08800	.13850	-.05280	.00460	.00040	.00000	.08430	.14080	.02350
1.996	3.680	.16920	.13780	-.06270	.00410	.00030	.00010	.16000	.14840	.02380
1.999	5.730	.24470	.13600	-.07140	.00490	.00020	.00010	.22990	.15970	.02340
1.999	7.870	.32270	.13500	-.07770	.00440	.00030	.00020	.30120	.17790	.02350
1.997	8.910	.39510	.13330	-.08180	.00490	.00040	.00020	.36630	.19930	.02400
1.996	12.020	.47590	.13130	-.08640	.00490	.00030	.00040	.43820	.22750	.02420
1.996	14.090	.55620	.12930	-.09040	.00560	.00030	.00060	.50990	.26120	.02400
GRADIENT		.03780	-.00025	-.00429	-.00010	-.00002	.00000	.03530	-.00038	.00010

PARAMETRIC DATA

BETA = .000 ELEVON = .000
BDFLAP = .000 SPOBRK = .000

REFERENCE DATA

SREF = .6033 56-FT. INRP = 12.6233 IN.
LREF = .5933 56-FT. INRP = .0000 IN.
SREF = 1.1710 56-FT. INRP = -.3750 IN.
SCALE = .0130

RUN NO. 130/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.800	-4.080	-2.6220	.03710	.03640	.00420	.00080	.00080	-.23750	.07560	.03310
.799	-1.960	-1.5590	.06130	.03580	.00410	.00050	.00050	-.15370	.06680	.03430
.800	.110	-.05770	.06220	.03500	.00440	.00050	.00100	-.05760	.06210	.03280
.799	2.210	.04110	.05990	.03410	.00380	.00050	.00120	.03870	.06150	.03140
.800	4.270	.14410	.05390	.03240	.00330	.00040	.00160	.13970	.06450	.03160
.800	6.340	.24330	.04400	.03120	.00260	.00020	.00160	.23890	.07080	.03090
.800	8.450	.35480	.03230	.02990	.00180	.00000	.00160	.34620	.08430	.03150
.800	10.480	.46870	.02220	.02720	.01100	-.00060	.00220	.45680	.10710	.03210
.798	12.600	.58630	.02990	.01540	.01310	-.00050	.00210	.56570	.13710	.03460
.800	14.690	.70970	.02770	.01130	.01470	-.00050	.00190	.67940	.20670	.03890
GRADIENT		.04833	-.00038	-.00066	.00009	-.00004	.00010	.04724	-.00132	-.00028

RUN NO. 129/ 0 RM/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.701	-4.090	-2.0240	.03820	.04590	.00120	.00010	-.00010	-.27760	.07820	.03180
.700	-2.020	-1.1730	.06210	.04110	.00100	.00010	.00020	-.17080	.06810	.03310
.700	.000	-.07190	.06510	.04030	.00080	-.00010	.00040	-.07190	.06310	.03230
.701	2.130	.03210	.06010	.03950	.00090	.00010	.00060	.02980	.06120	.03130
.701	4.230	.14060	.05440	.03690	.00170	-.00030	.00070	.13620	.06460	.03240
.701	6.360	.24700	.04490	.03500	.00260	.00050	.00070	.24030	.07200	.03120
.699	8.490	.36160	.03480	.03280	.00470	.00060	.00070	.35550	.08810	.03230
.701	10.530	.48310	.03480	.02340	.00730	-.00150	.00120	.46880	.12250	.03270
.700	12.650	.59740	.03890	.01750	.00930	-.00100	.00180	.57440	.16870	.03800
.699	14.770	.70020	.03920	.01880	.01090	-.00110	.00210	.66710	.21650	.03930
GRADIENT		.05056	-.00047	-.00094	.00004	-.00003	.00010	.04945	-.00163	-.00032

RUN NO. 128/ 0 RM/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.800	-4.220	-3.0430	.06180	.04450	.00270	.00010	.00000	-.29890	.08410	.03470
.800	-2.170	-1.9110	.06380	.03030	.00130	.00010	.00040	-.18830	.07100	.03300
.800	.120	-.08320	.06590	.04780	.00120	.00020	.00050	-.08350	.06600	.03570
.801	2.040	.02720	.06320	.04520	.00160	.00030	.00050	.22500	.06410	.03200
.800	4.110	.14110	.05840	.04070	.00180	.00030	.00060	.13680	.06830	.03230
.801	6.200	.26040	.05160	.03380	.00220	.00040	.00090	.25330	.07950	.03190
.802	8.330	.37160	.05310	.02830	.00510	.00100	.00150	.36050	.10650	.03300
.801	10.410	.47350	.05320	.02670	.00650	.00100	.00130	.45610	.13790	.03420
.801	12.540	.58810	.06030	.01450	.00770	.00110	.00210	.56100	.18670	.04940
.800	14.630	.70350	.06730	.00860	.01060	.00130	.00150	.66690	.23850	.04200
GRADIENT		.05314	-.00036	-.00157	-.00007	-.00003	.00008	.05196	-.00184	-.00028

REFERENCE DATA
MACH = .0533 30.FT. INEP = 12.8233 IN.
LREF = .5935 FT. INEP = .0000 IN.
BREF = 1.1715 FT. INEP = -.3750 IN.
SCALE = .0150
BETA = .000 ELEVON = .000
BDFLAP = .000 SPOBRK = 25.000

PARAMETRIC DATA

RUN NO. 127/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFO	CY	CYN	CBL	CL	CD	CAB
.901	-4.330	-33260	.07100	.07100	.00100	-.00010	.00000	-.32630	.09590	.03570
.900	-2.330	-21280	.07610	.06280	.00170	-.00030	.00040	-.20930	.08470	.03510
.902	-.180	-.08250	.07460	.04990	.00100	-.00020	.00030	-.08250	.07510	.03320
.900	2.000	.04640	.07590	.03900	.00110	-.00030	.00050	.04570	.07760	.03280
.900	4.050	.15430	.07410	.03680	.00250	-.00040	.00080	.14880	.08480	.03200
.900	6.200	.26330	.07740	.03280	.00320	-.00060	.00130	.25340	.10540	.03210
.900	8.360	.37160	.07650	.02810	.00350	-.00110	.00060	.35650	.12970	.03430
.898	10.300	.47340	.07620	.01890	.00720	-.00150	.00110	.45180	.16160	.03570
.899	12.430	.59160	.08080	.00310	.01270	-.00270	.00130	.56030	.20630	.03970
.901	14.570	.71750	.08470	-.01280	.01260	-.00250	.00110	.67310	.26240	.04360
GRADIENT		.05858	.00028	-.00436	.00011	-.00003	.00008	.05716	-.00138	-.00046

RUN NO. 126/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFO	CY	CYN	CBL	CL	CD	CAB
1.197	-4.320	-30010	.14070	.09420	.00170	-.00020	-.00050	-.28860	.16290	.04930
1.200	-1.990	-14290	.14240	.05620	.00020	-.00010	.00040	-.13790	.14720	.04790
1.200	-.270	.00060	.14290	.02440	-.00060	.00020	.00040	.00000	.14290	.04770
1.199	2.380	.12660	.14300	-.00310	-.00020	.00010	.00040	.12060	.14810	.04890
1.198	4.330	.25260	.14220	-.02660	.00130	-.00020	.00050	.24080	.16170	.05040
1.198	6.690	.37000	.13850	-.04180	.00080	-.00010	-.00020	.35130	.18070	.05110
1.198	8.810	.49100	.13410	-.05620	.00290	-.00060	.00000	.46460	.20780	.05240
1.198	10.920	.60890	.13130	-.06720	.00300	-.00030	.00070	.57510	.24420	.05400
1.200	13.040	.73990	.13300	-.08560	.00390	-.00030	.00180	.69080	.29650	.05790
1.199	15.220	.85420	.13170	-.09610	.00440	-.00020	.00180	.78970	.35120	.06020
GRADIENT		.06235	.00017	-.01365	-.00006	.00001	.00009	.05972	-.00012	.00014

RUN NO. 125/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFO	CY	CYN	CBL	CL	CD	CAB
1.304	-4.280	-22480	.14650	.09160	.00170	.00020	.00000	-.21320	.16290	.04050
1.499	-2.130	-11260	.14330	.03220	.00120	-.00010	.00010	-.10750	.14940	.03980
1.498	-.040	-.00060	.14220	.01220	.00070	.00020	.00030	-.00850	.14220	.03840
1.503	.480	.00980	.14130	.00640	.00070	.00010	.00010	.00970	.14140	.03780
1.498	2.100	.09320	.13960	-.00620	.00030	.00010	.00020	.08800	.14290	.03810
1.500	4.210	.20080	.13660	-.02370	.00170	-.00010	.00030	.18950	.15090	.03840
1.500	6.290	.30220	.13330	-.03960	.00160	.00000	.00000	.28570	.18560	.03920
1.500	8.500	.40260	.12980	-.04990	.00180	.00000	.00010	.37720	.18760	.04010
1.498	10.590	.50260	.12860	-.06440	.00320	.00000	-.00020	.47640	.21880	.04130
1.498	12.830	.61200	.12630	-.07900	.00540	-.00060	-.00130	.56820	.25010	.04300
1.497	15.280	.72800	.12310	-.09130	.00430	.00010	.00060	.66790	.31600	.04380
GRADIENT		.04972	-.00120	-.06881	-.00004	-.00002	.00003	.04713	-.00131	-.00029

ARC 88-705 0439 0411A-(024)

(REB022) (13 JUN 74)

REFERENCE DATA

REF = .0033 80.FT. YMRP = 12.6233 IN.
 LREF = .3638 FT. YMRP = .0000 IN.
 ORF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETER DATA

BETA = .000 ELEVOM = .000
 BDFLAP = .000 SPDRK = 23.000

RUN NO. 124/ 0 RM/L = 2.46 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CM	CA	CLMFC	CY	CYN	CBL	CL	CD	CAB
1.000	-4.750	-20390	-12610	.01220	.00410	.00030	.00000	-.19280	.14450	.090
2.000	-2.560	-11190	-12710	.00760	.00320	.00010	.00000	-.10610	.13190	.02100
2.004	-.930	-.03900	-12330	-.00330	.00310	.00000	.00000	-.03780	.12370	.02100
2.003	1.530	.03790	-12380	-.01360	.00370	.00000	.00000	.03460	.12470	.02150
2.003	3.620	.11460	-12160	-.02360	.00420	-.00010	.00010	.10670	.12860	.02200
2.004	5.740	.19460	-11690	-.03060	.00460	-.00020	.00000	.18190	.13580	.02040
2.002	7.630	.26480	-11430	-.03800	.00480	-.00010	.00000	.24680	.14940	.02090
2.001	9.920	.34220	-11180	-.04610	.00520	-.00010	.00000	.31780	.16910	.02140
1.999	12.030	.41030	-10600	-.04280	.00540	.00000	.00020	.38670	.19280	.02180
1.998	14.160	.49070	-10430	-.04370	.00580	.00010	.00030	.43800	.22340	.02210
GRADIENT		.03778	-.00078	-.00445	.00003	-.00004	.00001	.03350	-.00188	.00013

ARC 86-709 OAS9 Q413A-1M24)

(REMOVED) (13 JUN 74)

REFERENCE DATA

REF = -6933 50. FT. XMRP = 2.1233 IN.
 LREF = -9933 50. FT. YMRP = -0.0000 IN.
 RREF = 1.1710 50. FT. ZMRP = -0.3739 IN.
 SCALE = .0130

PARAMETRIC DATA

XETA = .000 ELEVON = .000
 BOFLAP = 14.300 SPDBRK = 25.000

RUN NO. 137/ 0 RN/L = 2.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.002	-4.030	-2.0350	.06300	.00220	.00230	.00080	.00030	-.20030	.07730	.03700
.001	-2.010	-1.0320	.06350	.00140	.00300	.00070	.00060	-.10080	.07010	.03610
.000	-1.000	-0.0460	.06720	.00040	.00290	.00030	.00030	-.00490	.06720	.03330
.000	2.170	.09230	.06470	.00190	.00290	.00040	.00060	-.09000	.06820	.03330
.001	4.250	.19490	.03900	.00320	.00380	.00040	.00100	.19200	.07340	.03430
.000	6.310	.30000	.04970	.00610	.00400	.00020	.00110	.29270	.08230	.03480
.001	8.440	.40420	.03420	.00710	.00400	-.00020	.00060	.39810	.08770	.03330
.000	10.530	.32460	.02720	.01020	.00860	-.00060	.00170	.51070	.12280	.03360
.000	12.600	.64010	.03460	.02070	.00830	-.00080	.00150	.61710	.17340	.03760
.000	14.710	.76160	.03190	.02230	.01030	-.00090	.00120	.72830	.22420	.04030
GRADIENT		.04815	-.00247	-.00068	.00014	-.00005	.00006	-.04696	-.00046	-.00030

RUN NO. 136/ 0 RN/L = 2.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.000	-4.110	-2.1370	.06340	.00810	.00340	.00070	.00030	-.21040	.08080	.03810
.001	-2.080	-1.1120	.06880	.00360	.00290	.00060	.00060	-.10870	.07280	.03640
.000	.000	-0.1130	.06840	.00210	.00270	.00060	.00070	-.01130	.06940	.03630
.001	2.110	.08310	.06660	.00100	.00330	.00040	.00110	.09060	.06980	.03510
.002	4.220	.19730	.06100	.00280	.00340	.00020	.00090	.19220	.07330	.03480
.000	6.270	.30730	.03260	.00640	.00430	.00000	.00100	.29990	.08580	.03390
.000	8.400	.42240	.04210	.00870	.00630	-.00040	.00090	.41170	.10340	.03630
.000	10.500	.34260	.04260	.01730	.00830	-.00080	.00120	.52370	.14100	.03710
.000	12.630	.65640	.04430	.02240	.00980	-.00090	.00150	.63080	.18670	.03890
.000	14.690	.75960	.04390	.02190	.01150	-.00110	.00210	.72310	.23710	.04230
GRADIENT		.04937	-.00013	-.00100	.00002	-.00006	.00006	-.04813	-.00066	-.00036

RUN NO. 135/ 0 RN/L = 2.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CY	CYN	CBL	CL	CD	CAB
.000	-4.260	-2.2410	.06930	.01140	.00410	.00060	.00030	-.23330	.08700	.03810
.000	-2.170	-1.1270	.07210	.00810	.00410	.00040	.00080	-.12430	.07690	.03830
.000	-.000	-0.1410	.07290	.00370	.00360	.00040	.00080	-.01800	.07290	.03800
.001	2.060	.09200	.07030	.00170	.00300	.00030	.00100	.08940	.07360	.03830
.003	4.160	.20820	.06670	.00190	.00430	.00000	.00100	.20090	.08130	.04060
.001	6.240	.32930	.06690	.00190	.00480	.00020	.00140	.32100	.09620	.03710
.000	8.350	.43370	.06210	.01730	.00760	-.00070	.00100	.42260	.12480	.03690
.001	10.440	.34290	.06230	.01960	.00890	-.00090	.00150	.52260	.15980	.04010
.002	12.610	.65490	.06890	.02240	.00870	-.00070	.00230	.62400	.20500	.04220
.001	14.620	.77280	.07940	.02340	.01130	-.00100	.00200	.73030	.26230	.04470
GRADIENT		.05286	-.00033	-.00110	-.00003	-.00006	.00006	-.05135	-.00067	-.00014

ARC 88-70S OAS9 0411A-(M24)

(RER023) (13 JUN 74)

REFERENCE DATA

SREF = .6033 98.FT. XMRP = 12.6255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .6150

BETA = .000 ELEVON = .000
BDFLAP = 16.300 SPCBRK = 25.000

PARAMETRIC DATA

RUN NO. 134/ 0 RN/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWC	CY	CYN	CBL	CL	CD	CAB
.900	-4.390	-.27810	.08220	-.02650	.00340	.00070	.00060	-.27100	.10320	.04210
.900	-2.310	-.115000	.08170	.00410	.00040	.00080	.00080	-.11460	.08770	.03980
.901	-.200	-.02370	.08470	.00890	.00030	.00090	.00090	-.02340	.08480	.03910
.899	1.910	.09320	.08300	.00070	.00020	.00020	.00100	.09040	.08610	.03880
.898	4.030	.20790	.08160	-.00400	-.00020	.00110	.00110	.20170	.09600	.03730
.900	6.140	.31400	.08420	-.00830	-.00040	.00180	.00180	.30320	.11730	.03960
.901	8.270	.42910	.08490	-.01970	-.00040	.00120	.00120	.41240	.14570	.03950
.899	10.400	.53220	.08610	-.04780	-.00090	.00190	.00190	.50790	.18080	.04040
.900	12.470	.65170	.08880	-.04500	-.00230	.00220	.00220	.61720	.22740	.04400
.900	14.650	.78520	.09450	-.08650	-.00200	.00100	.00100	.73570	.29010	.04930
GRADIENT		.05770	.00000	-.00375	.00018	-.00009	.00006	.05614	-.00075	-.00050

RUN NO. 133/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWC	CY	CYN	CBL	CL	CD	CAB
1.139	-4.470	-.27160	.15110	.06500	.00300	.00030	.00030	-.25900	.17180	.05370
1.202	-2.350	-.12950	.15290	.03030	.00230	.00030	.00070	-.12310	.13800	.05290
1.200	-.250	.00640	.15300	-.00210	.00170	.00030	.00080	.00710	.15500	.05370
1.201	1.910	.13300	.15550	-.03040	.00260	.00030	.00100	.12780	.15980	.05410
1.199	4.060	.26540	.15600	-.05650	.00310	.00040	.00100	.25360	.17440	.05350
1.199	6.170	.38480	.15430	-.07730	.00300	.00060	.00070	.36600	.19480	.05710
1.200	8.330	.50600	.15090	-.09240	.00330	.00030	.00040	.47880	.22260	.05900
1.200	10.430	.62330	.14960	-.10110	.00390	.00000	.00090	.58600	.25990	.06110
1.199	12.580	.73760	.15040	-.12070	.00490	.00030	.00190	.70670	.31180	.06480
1.200	14.700	.87080	.14910	-.13180	.00480	.00100	.00290	.80440	.36520	.06820
GRADIENT		.06268	.00058	-.01424	.00002	-.00001	.00006	.05985	.00034	.00023

RUN NO. 132/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWC	CY	CYN	CBL	CL	CD	CAB
1.502	-4.260	-.19170	.15610	.02770	.00370	.00080	.00080	-.17950	.16990	.04300
1.500	-2.190	-.08780	.15390	.00800	.00320	.00070	.00070	-.08190	.15720	.04160
1.500	-.050	.02250	.15210	-.01300	.00310	.00060	.00080	.02270	.15210	.04110
1.499	2.060	.12400	.14970	-.03190	.00340	.00030	.00090	.11850	.15410	.04100
1.501	4.220	.22890	.14820	-.05090	.00370	.00060	.00100	.21750	.16270	.04040
1.500	6.290	.33290	.14290	-.06780	.00380	.00070	.00060	.31530	.17850	.04090
1.499	8.440	.43270	.14110	-.08000	.00450	.00070	.00070	.40730	.20310	.04270
1.501	10.320	.53480	.14030	-.09510	.00310	.00040	.00030	.50020	.23570	.04380
1.501	12.660	.63740	.13880	-.10860	.00810	-.00020	-.00070	.58650	.27410	.04500
1.500	14.890	.74080	.13710	-.12330	.00620	.00080	.00080	.68110	.32170	.04570
GRADIENT		.04964	-.00113	-.00929	.00001	-.00003	.00003	.04888	-.00081	-.00037

(RER023) (13 JUN 74)

ARC 88-709 OAS3 GALLIA-(N24)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
BDFLAP = 16.300 SPDBRK = 25.000

REFERENCE DATA

SREF = .6033 SQ.FT. XMRP = 12.6255 IN.
LREF = .5935 FT. YMRP = .0500 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 131/ 0 RN/L = 2.50 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CV	CYN	CBL	CL	CD	CAB
2.002	-4.740	-.18420	-.13370	-.00230	.00390	.00080	.00040	-.17250	.14650	.02110
2.000	-2.660	-.10330	.13240	-.01070	.00350	.00070	.00050	-.09700	.13710	.02170
2.000	-.600	-.02110	.13100	-.02100	.00340	.00080	.00050	-.01970	.13120	.02180
2.000	1.540	.05870	.12950	-.03210	.00330	.00080	.00050	.05520	.13100	.02230
1.997	3.620	.13660	.12740	-.04270	.00870	.00060	.00060	.12830	.13580	.02230
1.998	5.740	.21640	.12410	-.03180	.00640	.00060	.00070	.20290	.14510	.02220
2.001	7.850	.29300	.12210	-.05920	.00710	.00060	.00070	.27360	.16100	.02240
2.001	9.890	.36760	.11950	-.06420	.00730	.00070	.00070	.34170	.18090	.02240
2.000	12.020	.44870	.11630	-.06730	.00790	.00070	.00100	.41460	.20720	.02220
2.000	14.110	.53130	.11390	-.07180	.00820	.00080	.00120	.48750	.24000	.02280
GRADIENT		.03641	-.00074	-.00489	.00008	-.00001	.00002	.03603	-.00150	.00016

(RER024) (13 JUN 74)

ARC 66-709 0A39 0A11A-(N24)

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
BCFLAP = -11.700 SPDBRK = 25.000

REFERENCE DATA

SREF = .8033 SQ.FT. XMRP = 12.6255 IN.
LREF = .5935 FT. YMRP = .0000 IN.
BREF = 1.1710 FT. ZMRP = -.3750 IN.
SCALE = .0150

RUN NO. 150/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWC	CY	CYN	CBL	CL	CD	CAB
.600	-3.290	.4430	.02420	.04390	.11000	-.01020	.01110	.43300	.10320	.03640
.599	-3.240	.44050	.02540	.04670	.07130	-.00670	.00630	.42890	.10360	.03320
.598	-1.210	.44010	.02600	.04940	.03330	-.00330	.00150	.42840	.10410	.03570
.600	-.700	.44150	.02570	.04970	.02460	-.00240	.00030	.42980	.10410	.03490
.600	-.150	.44040	.02620	.05030	.01630	-.00130	-.00110	.42860	.10430	.03330
.600	.290	.44050	.02560	.04990	.00620	-.00080	-.00210	.42890	.10380	.03440
.601	.830	.44140	.02530	.04910	-.00340	.00010	-.00320	.42980	.10360	.03460
.599	1.880	.44430	.02500	.04870	-.02140	.00210	-.00340	.43280	.10380	.03430
.600	2.910	.44380	.02380	.04660	-.04090	.00380	-.00830	.43230	.10260	.03400
.601	4.240	.44670	.02270	.04460	-.06480	.00670	-.01190	.43550	.10210	.03470
.599	5.230	.45230	.02170	.04330	-.08350	.00330	-.01430	.44120	.10210	.03380
GRADIENT		.00088	-.00040	-.00040	-.01826	.00177	-.00240	.00095	-.00024	-.00016

RUN NO. 149/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWC	CY	CYN	CBL	CL	CD	CAB
.797	-4.730	.46570	.05720	.04120	.10780	-.01070	.00990	.44780	.14010	.03760
.801	-2.650	.46490	.05820	.04440	.06190	-.00590	.00340	.44680	.14090	.03670
.800	-.580	.46390	.05930	.04650	.02000	-.00170	.00100	.44560	.14180	.03600
.799	-.100	.46510	.05850	.04700	.00960	-.00080	.00030	.44690	.14120	.03560
.799	.390	.46320	.05750	.04640	-.00030	.00010	-.00100	.44320	.13990	.03320
.799	.990	.46570	.05790	.04700	-.01080	.00120	-.00230	.44770	.14080	.03560
.800	1.430	.46450	.05870	.04640	-.01700	.00170	-.00310	.44630	.14140	.03530
.799	2.410	.46550	.05780	.04560	-.03890	.00410	-.00340	.44750	.14060	.03600
.800	4.440	.46650	.05560	.04340	-.07910	.00850	-.00990	.44880	.13870	.03540
.799	5.520	.46930	.05590	.04030	-.10360	.01100	-.01240	.45160	.13950	.03730
GRADIENT		.00008	-.00013	.00029	-.02022	.00205	-.00215	.00010	-.00011	-.00023

ARC 66-709 OAS9 0A11A-(IN24)

(RER024) (13 JUN 74)

REFERENCE DATA

SREF = -6053 30.FT. XMRP = 12.0255 IN.
 LREF = -5935 FT. YMRP = .0000 IN.
 BREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
 BOFLAP = -11.700 SPDRK = 25.000

RUN NO. 148/ 0 RN/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWC	CY	CYN	CBL	CL	CD	CAB
.900	-4.580	.48280	.08320	.02470	.10810	-.01130	.01160	.45930	.17100	.04090
.897	-2.510	.47450	.08390	.03310	.06110	-.00640	.00640	.45150	.16810	.03760
.902	-.490	.49490	.08410	.02560	.01850	-.00250	.00100	.47150	.17220	.03780
.900	.080	.49750	.08470	.02330	.00380	-.00130	-.00060	.47400	.17350	.03750
.902	.510	.49200	.08390	.02600	-.00010	-.00080	-.00140	.46880	.17140	.03800
.898	1.030	.48950	.08310	.02670	-.01410	.00100	-.00320	.46640	.17020	.03620
.901	1.540	.48740	.08210	.02810	-.02240	.00180	-.00410	.46480	.16870	.03600
.900	2.550	.49130	.08260	.02730	-.04460	.00390	-.00360	.46830	.17000	.03700
.900	3.570	.49380	.08120	.02480	-.06640	.00640	-.00820	.47100	.16910	.03620
.900	4.580	.48610	.08260	.03010	-.09250	.00940	-.01060	.46360	.16710	.03710
.901	5.630	.48760	.08160	.02600	-.11380	.01140	-.01330	.46490	.16820	.03910
GRADIENT		.00107	-.00049	.00006	-.02153	.00220	-.00242	.00114	-.00028	-.00040

RUN NO. 147/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWC	CY	CYN	CBL	CL	CD	CAB
1.198	-4.300	.58550	.13190	-.05130	.07930	-.00370	.00930	.55140	.23680	.05370
1.199	-2.440	.58450	.13140	-.05160	.04540	-.00190	.00490	.55060	.23610	.05250
1.199	-.410	.58960	.13130	-.05320	.00870	.00060	.00070	.55560	.23700	.05220
1.200	.080	.58840	.13090	-.05290	.00050	.00110	-.00030	.55450	.23630	.05250
1.200	.600	.58920	.13050	-.05160	-.00760	.00150	-.00130	.55540	.23620	.05180
1.200	1.080	.58850	.13020	-.05170	-.01580	.00220	-.00260	.55470	.23570	.05160
1.200	1.640	.58590	.13000	-.05100	-.02420	.00290	-.00370	.55250	.23500	.05180
1.200	2.640	.58440	.13030	-.04950	-.04170	.00420	-.00590	.55070	.23500	.05130
1.198	3.630	.58320	.13070	-.04930	-.05820	.00510	-.00820	.54950	.23510	.05250
1.198	4.690	.58300	.13100	-.04910	-.07410	.00550	-.01080	.54920	.23550	.05270
1.199	5.670	.58090	.13220	-.04870	-.09150	.00680	-.01280	.54750	.23620	.05400
GRADIENT		-.00031	-.00014	.00033	-.01681	.00109	-.00217	-.00027	-.00020	-.00012

ARC 86-769 0459 0411A-(N24)

(RER024) (13 JUN 74)

REFERENCE DATA

SREF = .6033 50.FT. YMRP = 12.6255 IN.
 LREF = .5933 FT. YMRP = .0000 IN.
 OREF = 1.1710 FT. ZMRP = -.3750 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 BDFLAP = -11.700 SFOBRK = 25.000

RUN NO. 146/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
1.500	-4.650	.48700	.13010	-.03280	.07820	.00040	.00320	.45520	.21650	.04260
1.497	-2.620	.49260	.13160	-.03200	.04710	-.00010	.00150	.46030	.21900	.04320
1.498	-.570	.49240	.13130	-.03360	.01140	.00110	-.00090	.46030	.21660	.04290
1.498	-.100	.49420	.13100	-.03350	.00350	.00130	-.00100	.46210	.21870	.04280
1.499	.420	.49470	.13080	-.03400	-.00440	.00150	-.00170	.46260	.21860	.04240
1.497	.960	.49720	.13060	-.03300	-.01250	.00180	-.00220	.46510	.21890	.04260
1.498	1.440	.49560	.13030	-.03160	-.01930	.00200	-.00270	.46360	.21830	.04210
1.498	2.480	.49440	.13020	-.03300	-.03610	.00250	-.00400	.46250	.21800	.04180
1.498	3.500	.49220	.13030	-.03330	-.05190	.00290	-.00320	.46030	.21770	.04180
1.500	4.520	.49050	.13010	-.03340	-.06850	.00270	-.00710	.45870	.21710	.04210
1.500	5.530	.49150	.13010	-.03160	-.08440	.00280	-.00880	.45970	.21730	.04220
GRADIENT		.01739	-.00008	-.00009	-.01587	.00034	-.00125	.00040	-.00001	-.00013

RUN NO. 145/ 0 RN/L = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWD	CY	CYN	CBL	CL	CD	CAB
2.002	-4.180	.35800	.11290	-.03620	.06440	.00150	.00450	.33190	.17530	.02380
2.002	-2.170	.35580	.11340	-.03610	.03250	.00110	.00200	.32960	.17550	.02390
2.000	-.080	.35620	.11220	-.03530	.00090	.00030	-.00060	.33030	.17430	.02290
1.997	.400	.35400	.11180	-.03590	-.00490	.00030	-.00120	.32820	.17350	.02310
1.997	.910	.35800	.11280	-.03650	-.01230	.00020	-.00160	.33190	.17530	.02320
1.993	1.420	.35490	.11350	-.03730	-.01900	.00000	-.00210	.32880	.17530	.02390
1.998	1.930	.35760	.11420	-.03680	-.02690	-.00010	-.00280	.33130	.17650	.02450
1.999	2.960	.35780	.11400	-.03700	-.04170	-.00050	-.00410	.33150	.17640	.02440
2.004	3.960	.35670	.11330	-.03670	-.05650	-.00060	-.00520	.33060	.17550	.02420
2.001	5.000	.36140	.11260	-.03530	-.07450	-.00080	-.00660	.33530	.17560	.02430
2.001	5.960	.35940	.11230	-.03640	-.08840	-.00090	-.00790	.33340	.17500	.02470
GRADIENT		.00028	.00003	-.00003	-.01486	-.00026	-.00119	.00027	.00010	.00009